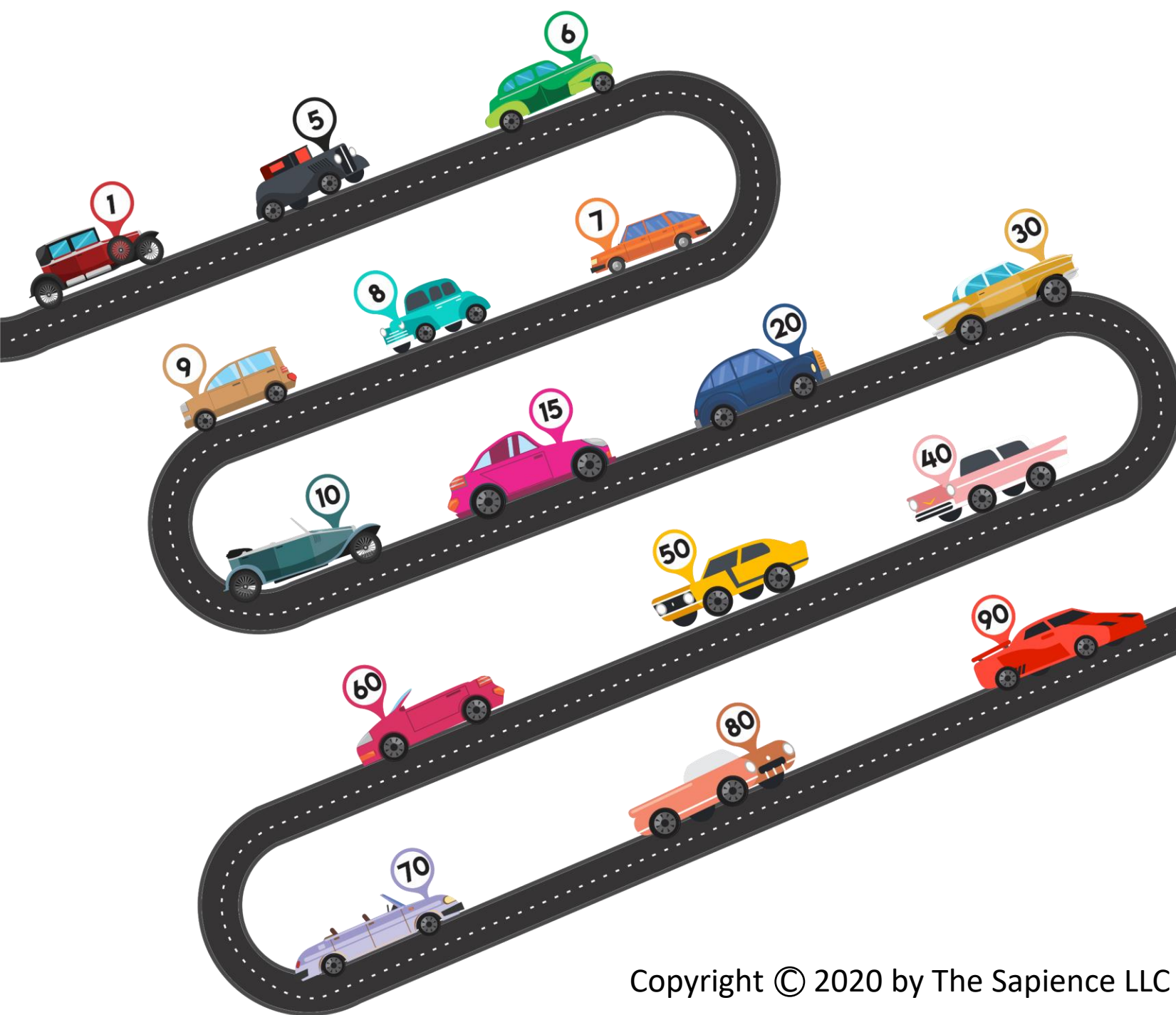




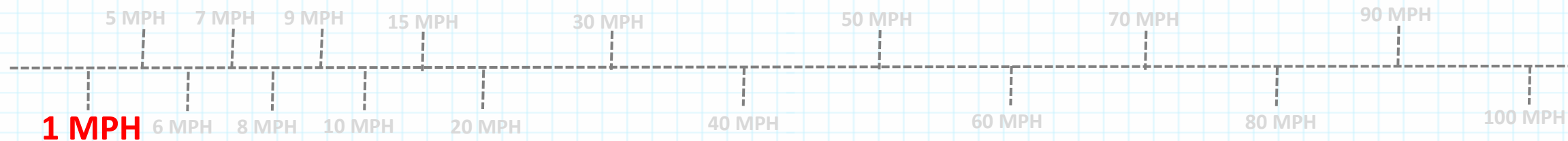
ABACUS

17 Speed Track




Sapience[®]
Illuminating Brains

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1

Learning &
Understanding
Abacus Tool

2

Counting from
1 To 4

3

Adding &
Subtracting 1

4

Adding &
Subtracting 2

5

Adding &
Subtracting 3

6

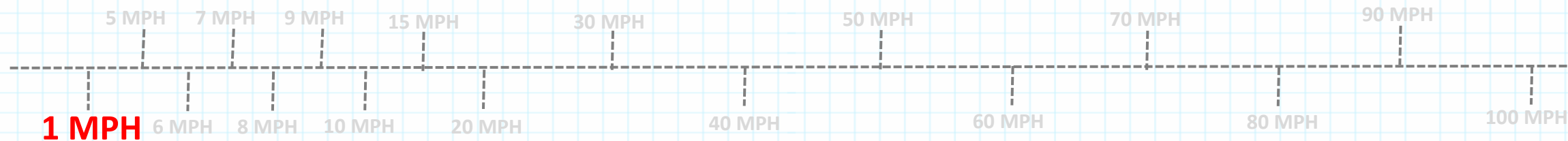
Adding &
Subtracting 4

7

Adding &
Subtracting 5

8

Introduction to
concept of 6



9

Adding &
Subtracting 6

10

Introduction to
Concept of 7

11

Adding &
Subtracting 7

12

Introduction to
Concept of 8

13

Adding &
Subtracting 8

14

Introduction to
Concept of 9

15

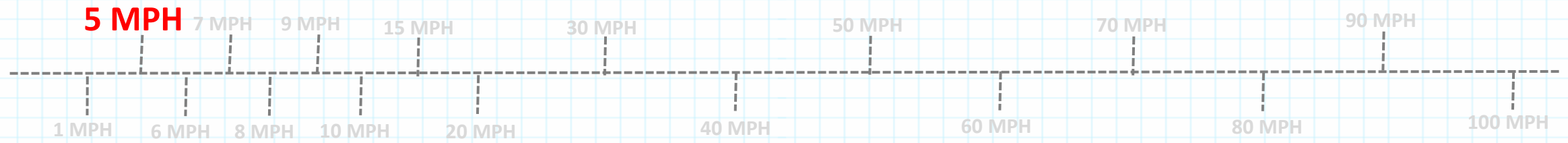
Adding &
Subtracting 9

16

Level
Pre-Assessment &
Assessment

Level Graduation
Certification &
Medal





1

Revision of 1 MPH
& Introduction to
Double digit
Counting

2

Addition &
Subtraction of
Double digit
numbers from
10 To 20

3

Addition &
Subtraction of
Double digit
numbers
from 21 To 30

4

Addition &
Subtraction of
Double digit
numbers from 31
To 40

5

Addition &
Subtraction of
Double digit
numbers from
41 To 50

6

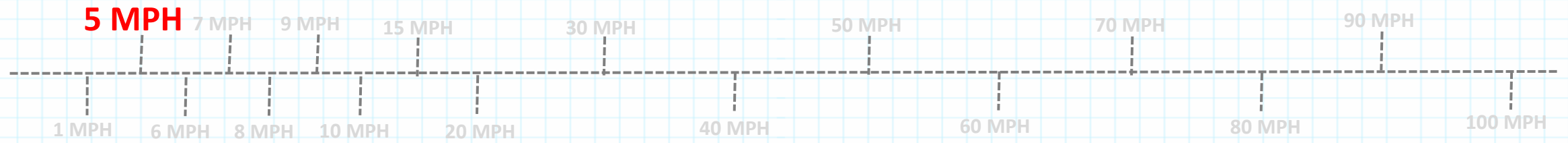
Addition &
Subtraction of
Double digit
numbers from
51 To 60

7

Addition &
Subtraction of
Double digit
numbers from
61 To 70

8

Addition &
Subtraction of
Double digit
numbers from
71 To 80



9

Addition &
Subtraction of
Double digit
numbers from
81 To 90

10

Addition &
Subtraction of
Double digit
numbers from 91
To 99

11

Introduction to +5
combination - + 1
Single Digit only

12

Introduction to +5
combination - + 2
Single Digit
only

13

Introduction to +5
combination - + 3
Single
Digit only

14

Introduction to +5
combination
- + 4 Single
Digit only

15

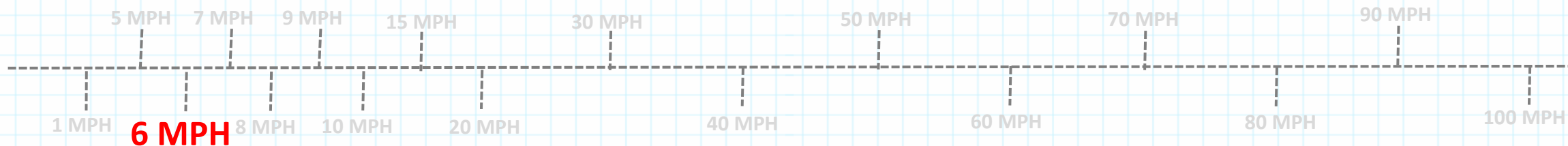
Revision

16

Level
Pre-Assessment &
Assessment

Level Graduation
Certification &
Medal





1

+5 Young Buddy
combination: + 1
single & double
digit

Visualization of +1
combination

2

+5 Young Buddy
combination: - 1
single & double
digit

Visualization of -1
combination

3

+5 Young Buddy
combination: +1 - 1
single & double
digit

Visualization of
+1 & -1 combination

4

+5 Young Buddy
combination: + 2
single & double
digit

Visualization of +2
combination

5

+5 Young Buddy
combination: - 2
single & double
digit

Visualization of -2
combination

6

+5 Young Buddy
combination: +2 - 2
single & double
digit

Visualization of
+2 & -2 combination

7

+5 Young Buddy
combination: + 3
single & double
digit

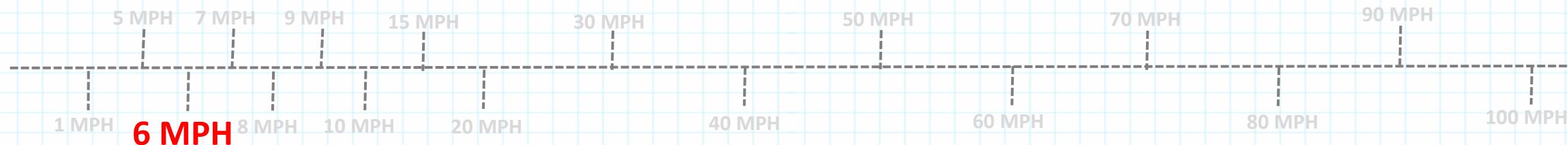
Visualization of +3
combination

8

+5 Young Buddy
combination: - 3
single & double
digit

Visualization of -3
combination





+5 Young Buddy
combination: +3 - 3
single & double
digit

9 Visualization of +3
& -3 combination

+5 Young Buddy
combination: + 4
single & double
digit

10 Visualization of
+4 combination

+5 Young Buddy
combination: - 4
single & double
digit

11 Visualization of -4
combination

+5 Young Buddy
combination: +4 - 4
single & double
digit

12 Visualization of +4
& -4 combination

All +5 Young Buddy
combination
single & double
digit

13 Visualization of
all combination

All +5 Young Buddy
combination
single & double
digit

14 Visualization of
all combination

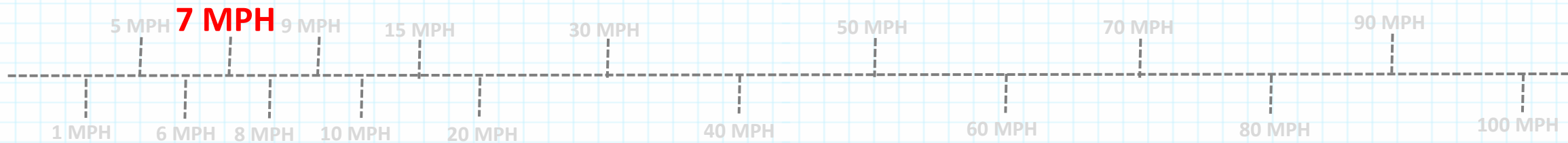
All +5 Young Buddy
combination
single & double
digit

15 Visualization of
all combination

Level
Pre-Assessment &
Assessment

16 Level Graduation
Certification &
Medal





1

+10 Old Buddy
combination: + 1
single & double
digit

Visualization of +1
combination

2

+10 Old Buddy
combination: - 1
single & double
digit

Visualization of -1
combination

3

+10 Old Buddy
combination: +2
single & double
digit

Visualization of
+2 combination

4

+10 Old Buddy
combination: - 2
single & double
digit

Visualization of -2
combination

5

+10 Old Buddy
combination: +1, -1,
+2, -2 single &
double digit

Visualization of +1,
-1, +2, -2 combination

6

+10 Old Buddy
combination: +3
single & double
digit

Visualization of
+3 combination

7

+10 Old Buddy
combination: - 3
single & double
digit

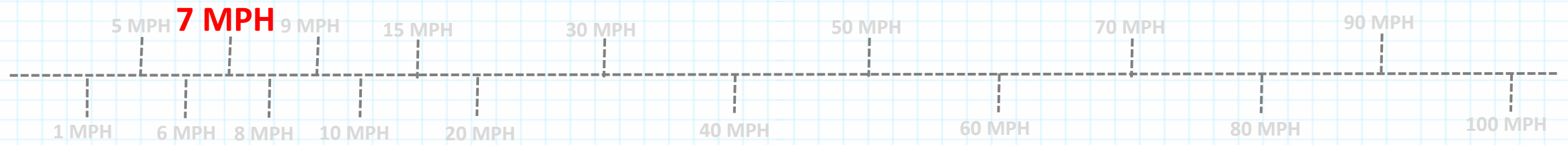
Visualization of -3
combination

8

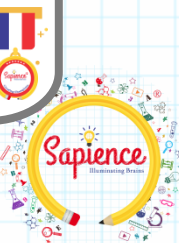
+10 Old Buddy
combination: + 4
single & double
digit

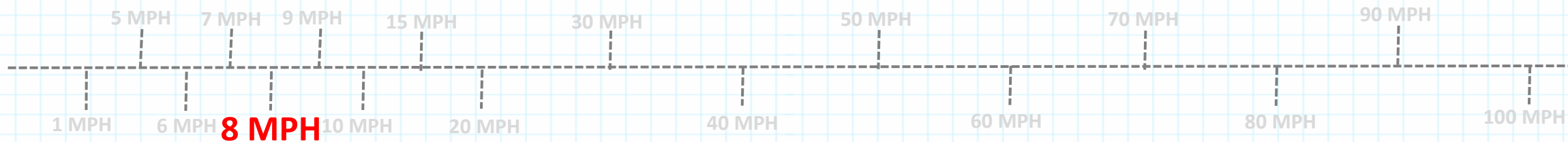
Visualization of +4
Combination





9 +10 Old Buddy combination: - 4 single & double digit Visualization of -4 combination	10 +10 Old Buddy combination: +3, -3, +4, -4 single & double digit Visualization of +3, -3, +4, -4 combination	11 +10 Old Buddy combination: +5 single & double digit Visualization of +5 combination	12 +10 Old Buddy combination: -5 single & double digit Visualization of -5 combination
13 All Young & Old Buddy combination +1 to +5 & -1 to -5 Visualization of all combination	14 All Young & Old Buddy combination +1 to +5 & -1 to -5 Visualization of all combination	15 All Young & Old Buddy combination +1 to +5 & -1 to -5 Visualization of all combination	16 Level Pre-Assessment & Assessment Level Graduation Certification & Medal





1

+10 Old Buddy
combination: + 6
single & double
digit

Visualization of +6
combination

2

+10 Old Buddy
combination: - 6
single & double
digit

Visualization of -6
combination

3

+10 Old Buddy
combination: +7
single & double
digit

Visualization of
+7 combination

4

+10 Old Buddy
combination: - 7
single & double
digit

Visualization of -7
combination

5

+10 Old Buddy
combination: +6, -6,
+7, -7 single &
double digit

Visualization of +6,
-6, +7, -7 combination

6

+10 Old Buddy
combination: +8
single & double
digit

Visualization of
+8 combination

7

+10 Old Buddy
combination: - 8
single & double
digit

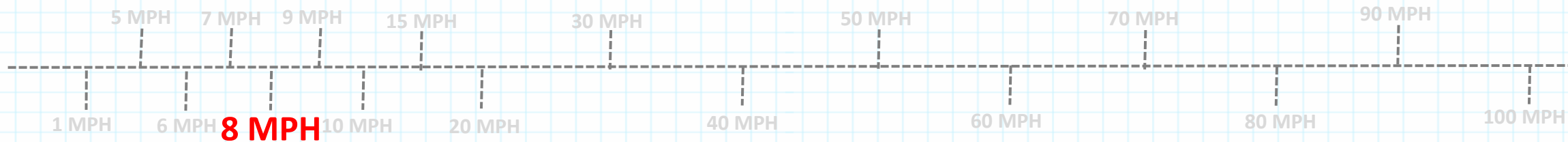
Visualization of - 8
combination

8

+10 Old Buddy
combination: + 9
single & double
digit

Visualization of +9
Combination





9 +10 Old Buddy combination: - 9 single & double digit
Visualization of -9 combination

10 +10 Old Buddy combination: +8, -8, +9, -9 single & double digit
Visualization of +3, -3, +4, -4 combination

11 All Young & Old Buddy combination single & double digit
Visualization of all combination

12 All Young & Old Buddy combination single & double digit
Visualization of all combination

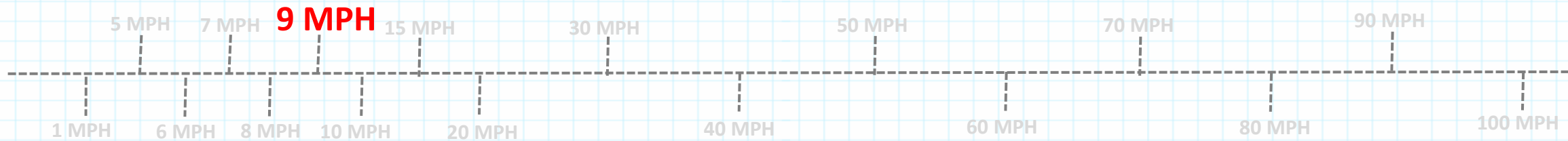
13 All Young & Old Buddy combination single & double digit
Visualization of all combination

14 All Young & Old Buddy combination single & double digit
Visualization of all combination

15 All Young & Old Buddy combination single & double digit
Visualization of all combination

16 Level Pre-Assessment & Assessment
Level Graduation Certification & Medal





1

+10 Double
combination: + 6
single & double
digit

Visualization of +6
combination

2

+10 Double
combination: - 6
single & double
digit

Visualization of -6
combination

3

+10 Double
combination: +6 & -6
single & double
digit

Visualization of
+6 & -6 combination

4

+10 Double
combination: + 7
single & double
digit

Visualization of +7
combination

5

+10 Double
combination: - 7
single & double
digit

Visualization of - 7
combination

6

+10 Double
combination: +7 & -7
single & double
digit

Visualization of
+7 & -7 combination

7

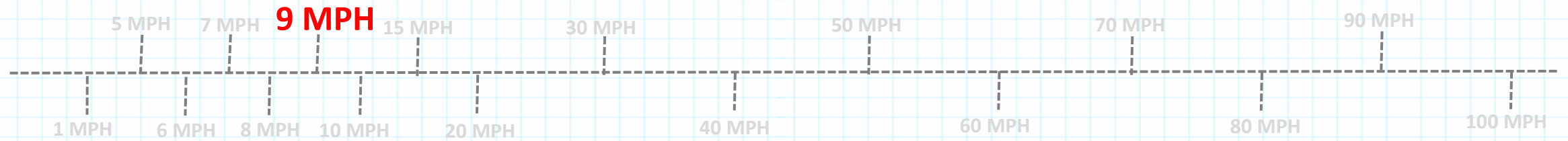
+10 Double
combination: + 8
single & double
digit

Visualization of +8
combination

8

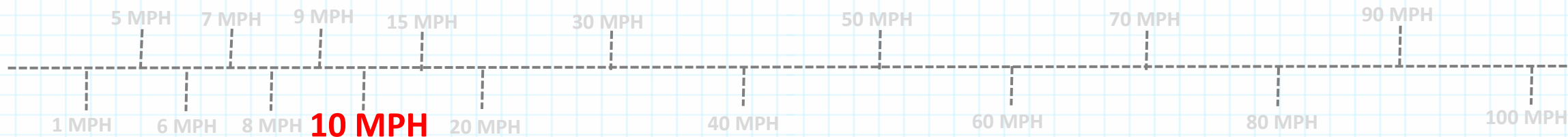
+10 Double
combination: - 8
single & double
digit

Visualization of - 8
combination



+10 Double combination: +8 & -8 single & double digit 9 Visualization of +8 & -8 combination	+10 Double combination: +9 single & double digit 10 Visualization of +9 combination	+10 Double combination: -9 single & double digit 11 Visualization of -9 combination	+10 Double combination: +9 & -9 single & double digit 12 Visualization of +9 & -9 combination
All Young, Old & Double combination single & double digit 13 Visualization of all combination	All Young, Old & Double combination single & double digit 14 Visualization of all combination	All Young, Old & Double combination single & double digit 15 Visualization of all combination	Level Pre-Assessment & Assessment Level Graduation Certification & Medal





1

Introduction to Abacus

Addition & Subtraction of digits from 1 to 99

2

Introduction to + 5 combinations +1, +2

3

Introduction to -5 combinations -1, -2

Introduction to Visualization Method & Calculation with Lower Beads

4

Introduction to +5 combinations +3, +4

Visualization with Upper & Lower Beads with No combination

5

Introduction to -5 combinations -3, -4

Visualization with Upper & Lower Beads with 6, 7, 8 & 9

6

Revision to all the Previous Tracks

Visualization of Upper & Lower Beads together

7

Introduction to +10 combinations +1 +2 +3 & +4

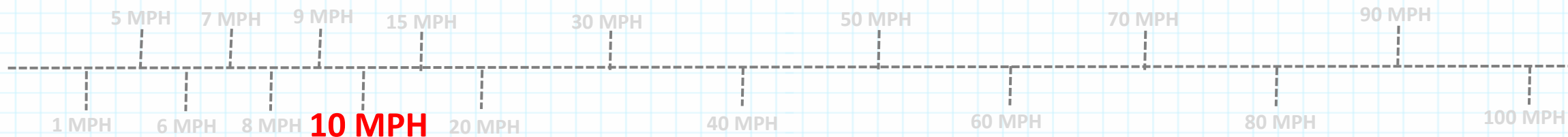
Visualization of all Beads In Double digit

8

Introduction to +10 combinations +5 +6 +7 +8

Visualization of all Beads in Double digit





Introduction to +10
& -10 combinations
+9 & -9

9 Visualization of
+5 combinations
+1 & +2

Introduction to -10
combinations
-8 -7 -6 -5

10 Visualization of
-5 combinations
-1 & -2

Introduction to -10
combinations
-4 -3 -2 -1

11 Visualization of
+5 combinations
+3 & +4

Introduction to +10
Double combination
 $+9 = (+4 -5) + 10$

12 Visualization of
-5 combinations
-3 & -4

Introduction to +10
Double combination
 $+8 = (+3 -5) + 10$

13 Visualization of
+5 combinations
+1 +2 +3 +4

Introduction To +10
Double combination
 $+7 = (+2 -5) + 10$

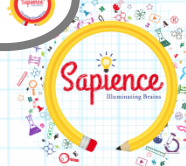
14 Visualization of
-5 combinations
-1 -2 -3 -4

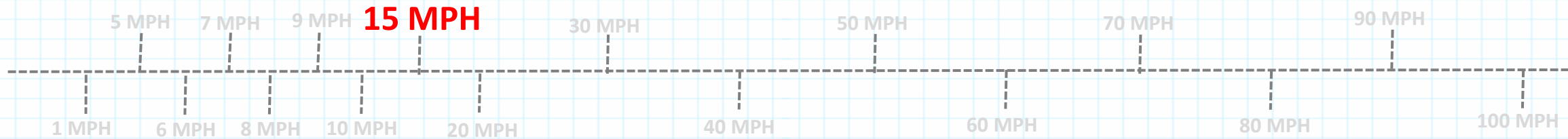
Introduction to +10
Double combination
 $+6 = (+1 -5) + 10$

15 Visualization +5
& -5
combinations

Level
Pre-Assessment &
Assessment

16 Level Graduation
Certification &
Medal





1

All combinations
Single & double digit

6,7 & 8 Rows

Visualization: Young
Buddy

2

All combinations
Single & double digit

6,7 & 8 Rows

Visualization: Young
Buddy

3

All combinations
Single & double digit

7 & 8 Rows

Visualization: Young
Buddy

4

All combinations
Single & double digit

7 & 8 Rows

Visualization: Young
Buddy

5

All combinations
Single & double digit

7 & 8 Rows

Visualization: Old
Buddy

6

All combinations
Single & double digit

7 & 8 Rows

Visualization: Old
Buddy

7

All combinations
Single & double digit

7 & 8 Rows

Visualization: Old
Buddy

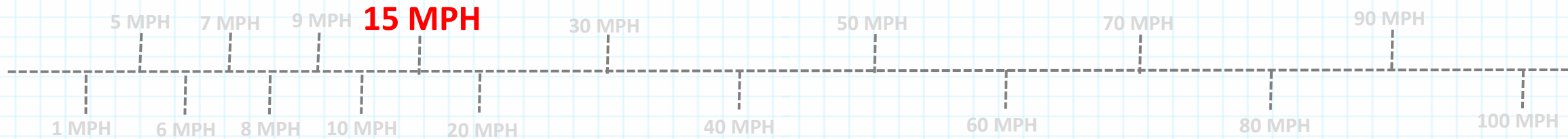
8

All combinations
Single & double digit

7 & 8 Rows

Visualization: Old
Buddy





9

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
Double Combination

10

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
Double Combination

11

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
Double Combination

12

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
Double Combination

13

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
All Combinations

14

All combinations
Single & double digit

7, 8 & 9 Rows

Visualization:
All Combinations

15

All combinations
Single & double digit

7, 8 & 9 Rows

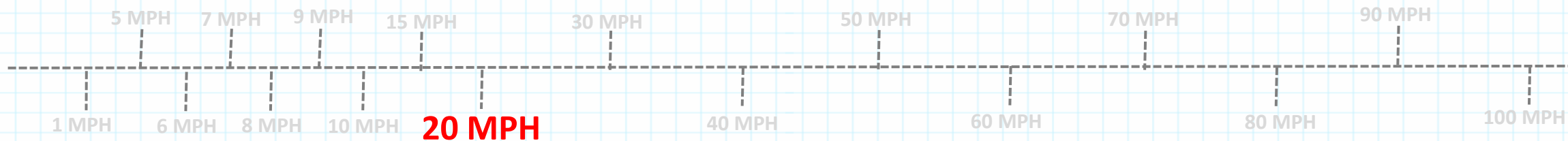
Visualization:
All Combinations

16

Level
Pre-Assessment &
Assessment

Level Graduation
Certification &
Medal





1

Revision & Practice
of all young &
old buddy
combinations

2

Double combination
-10
 $-9 = -10 (+5 -4)$

Visualization
+5 & -5
combinations

3

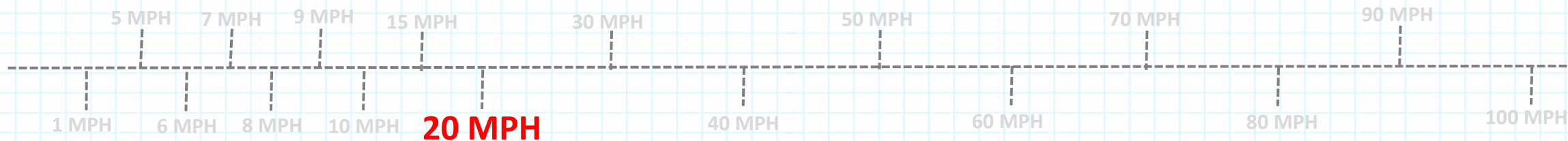
Double combination
-10
 $-8 = -10 (+5 -3)$

Visualization +10
combinations
+1 & +2

4

Double combination
-10
 $-7 = -10 (+5 -2)$

Visualization
+10 combinations
+ 3 & + 4



5

Double combination

-10

$$-6 = -10 (+5 -1)$$

Visualization +10
combinations

+ 5 & + 6

6

All combinations

Multiplication: 1 x 1
digit

Visualization +10
combinations
+ 7 & + 8

7

All combinations

Multiplication: 1 x 1
digit

Mixed Sums with
Addition, Subtraction
& Multiplication

Visualization +10
combination + 9

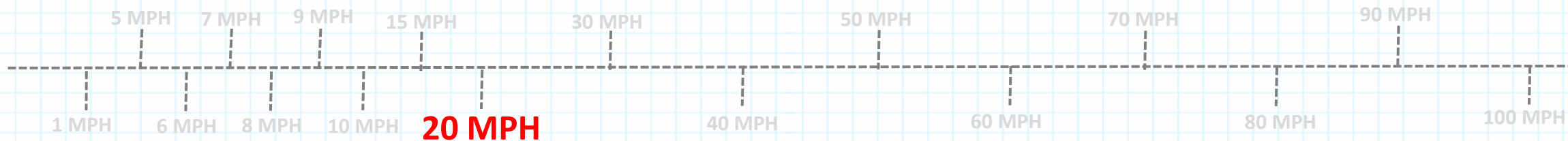
8

All combinations

Multiplication: 2 x 1
digit

Mixed Sums with
Addition, Subtraction
& Multiplication

Visualization - 10
combination - 9



9

All combinations

Multiplication: 2 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization - 10 combinations - 8 & - 7

10

All combinations

Multiplication: 2 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization - 10 combinations - 6 & - 5

11

All combinations

Multiplication: 2 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization - 10 combinations - 4 & - 3

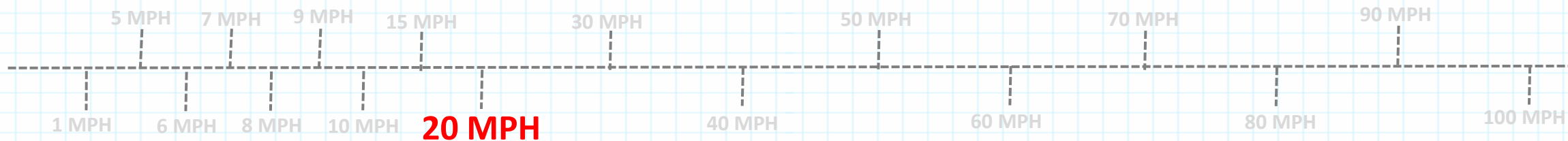
12

All combinations

Multiplication: 3 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization - 10 combinations - 2 & - 1



All combinations

Multiplication: 3 x 1
digit

Mixed Sums with
Addition, Subtraction
& Multiplication

Visualization: All
+ 10 combinations

All combinations

Decimals with
2 digit Lower
Beads only

Multiplication: 3 x 1
digit

Mixed Sums with
Addition, Subtraction
& Multiplication

Visualization: All - 10
combinations

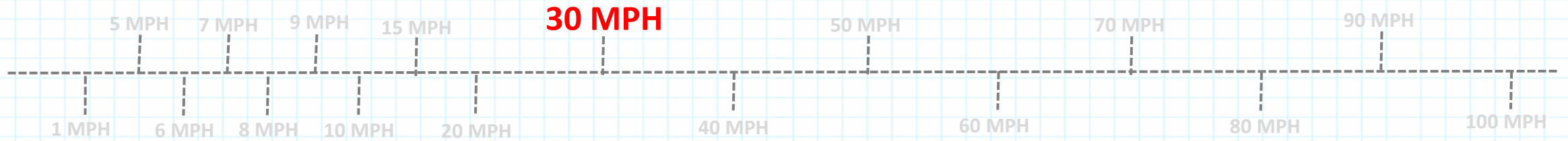
Mixed Sums with
Addition, Subtraction
& Multiplication.

Visualization: All
combinations
of +10 & - 10

Level
Pre-Assessment &
Assessment

Level Graduation
Certification &
Medal





1

> 100 (2 digit with all combinations)

Multiplication: 2 x 1 & 3 x 1 digit

Decimals: 2 Decimals with Upper & Lower Beads;
3 Decimals with Lower Beads only

Visualization: All combinations

2

> 100 (2 digit with all combinations)

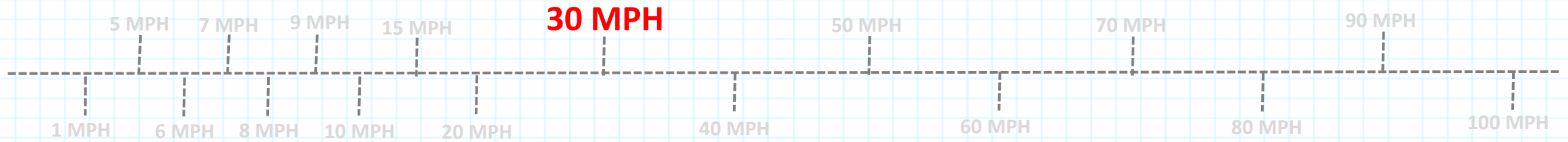
>100 (3 digit sums with Lower Beads only)

Multiplication: 3 x 1 digit

Decimals: 2 digit with Upper &
Lower Beads with +5 & -5 combinations;
3 digit with Upper & Lower Beads.

Mixed Sums with Addition, Subtraction &
Multiplication

Visualization: All combinations +5 & -5



3

> 100 (2 digit with all combinations)

> 100 (3 digit Lower & Upper Beads)

Decimals: 3 digit with +5 combinations

Multiplication: 3 x 1 & 4 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: All combinations +10 & Multiplication 2 x 1 digit

4

> 100 (2 digit all combinations)

> 100 (3 digit +5 combinations)

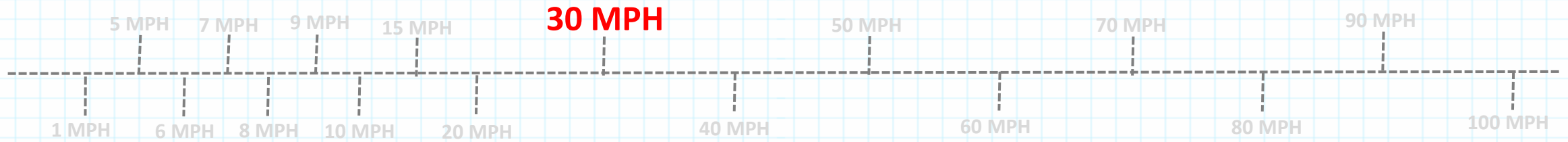
Introduction to Single Digit Negative Sums

Decimals: 3 digit with +5 combinations

Multiplication: 3 x 1 & 4 x 1 Dig.

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: All combinations +10 & Multiplication 2 x 1 digit



5

> 100 (2 digit with all combinations)

> 100 (3 digit -5 combinations)

Single Digit Negative Sums

Decimals: 3 digit with -5 combinations

Multiplication: 3 x 1 & 4 x 1 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: All combinations -10 & Multiplication 2 x 1 digit

6

> 100 (2 digit with all combinations)

>100 (3 digit -5 combinations)

Introduction to Double digit negative numbers

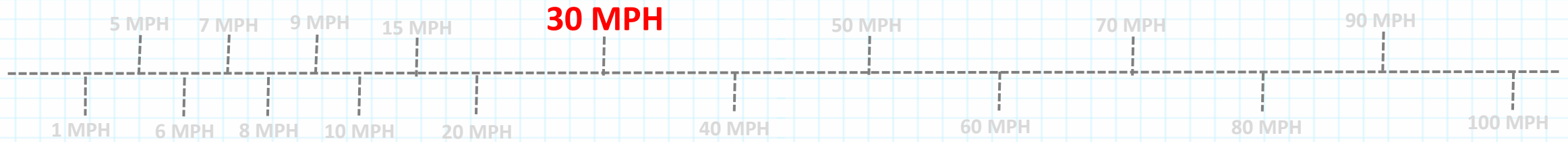
Decimals: 3 digit with -5 combinations

Multiplication: 3 x 1, 4 x 1 & 2 x 2 digit

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: All combinations & Multiplication 2 x 1 & 3 x 1 digit





> 100 (2 digit with all combinations)

> 100 (3 digit with +5 & -5 combinations)

Double digit Negative Numbers

Decimals: 3 digit with +5 & -5 combinations

Multiplication: 4 x 1 & 2 x 2 digits

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: Double combinations +6 To +9 & Multiplication 2 x 1 & 3 x 1 digit

> 100 (2 digit with all combinations)

> 100 (3 digit with +10 combination)

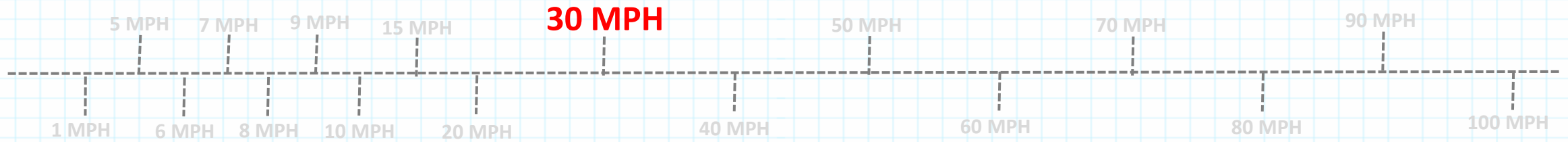
Single & Double digit Negative Numbers

Decimals: 3 digit with +10 combinations

Multiplication: 4 x 1 & 2 x 2 digits

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: Double combinations + 6 To + 9 & Multiplication 2 x 1 & 3 x 1 digit



9

> 100 (2 digit with all combinations)

> 100 (3 digit with - 10 combination)

Single & Double digit Negative Numbers

Decimals: 3 digit with - 10 combinations

Multiplication: 4 x 1 & 2 x 2 digits

Mixed Sums with Addition, Subtraction
& Multiplication

Visualization: Double combinations
- 6 To - 9 & Multiplication 2 x 1 & 3 x 1 digit

10

> 100 (2 digit with all combinations)

> 100 (3 digit with +10 & - 10 combination)

Introduction to Triple digit Negative Numbers

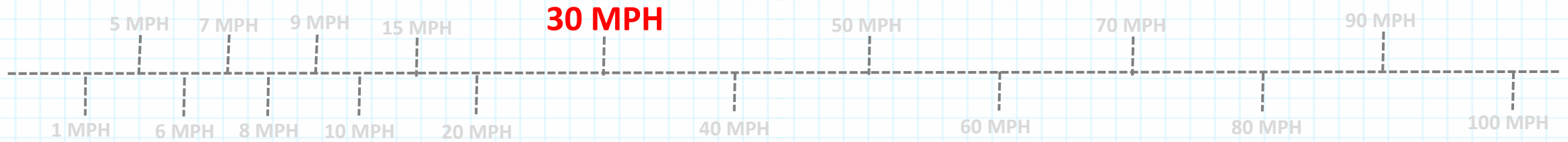
Decimals: 3 digit with all combinations

Multiplication: 4 x 1 & 2 x 2 digits

Mixed Sums with Addition, Subtraction
& Multiplication

Visualization: Double combinations
- 6 To - 9 & Multiplication 2 x 1 & 3 x 1 digit





> 100 (2 digit with all combinations)

> 100 (3 digit with all combinations)

Triple digit Negative Numbers

Decimals: 3 digit with all combinations
& 4 digit with Lower Beads only

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Mixed Sums with Addition, Subtraction
& Multiplication

Visualization: All combinations & Multiplication
2 x 1 & 3 x 1 digit

11

> 100 (2 digit with all combinations)

> 100 (3 digit with all combinations)

<1000 (4 digit Lower Beads only)

Single, Double & Triple digit Negative Numbers

Decimals: 3 digit with all combinations & 4 digit with
Upper & Lower Beads

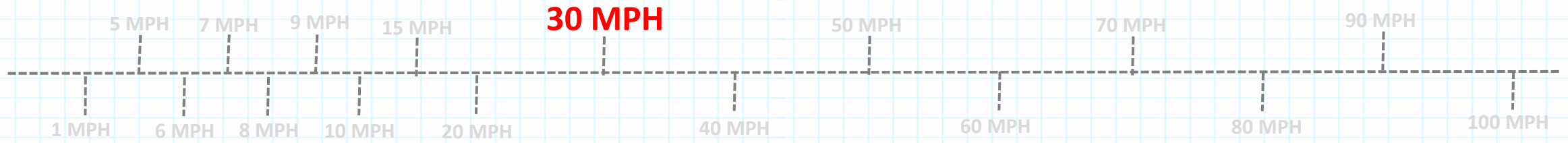
Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Mixed Sums with Addition, Subtraction
& Multiplication

Visualization: All combinations & Multiplication
2 x 1 & 3 x 1 digit

12





> 100 (2 digit with all combinations)

> 100 (3 digit with all combinations)

<1000 (4 digit upper & Lower Beads only)

Single, Double & Triple digit Negative Numbers

Decimals: 3 digit with all combinations & 4 digit with Upper & Lower Beads

Mixed Sums with Addition, Subtraction & Multiplication

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Visualization: All combinations & Multiplication 2 x 1 & 3 x 1 digit

13

> 100 (2 digit with all combinations)

> 100 (3 digit with all combinations)

<1000 (4 digit with +5 & -5 combinations)

Single, Double & Triple digit Negative Numbers

Decimals: 3 digit with all combinations & 4 digit with +5 & -5 combinations

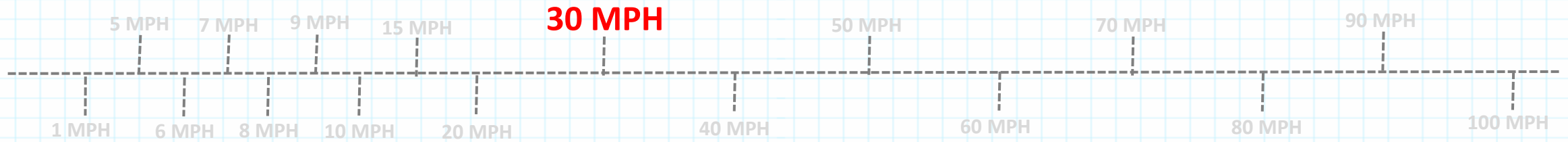
Mixed Sums with Addition, Subtraction & Multiplication

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Visualization: All combinations & Multiplication 2 x 1 & 3 x 1 digit

14





> 100 (2 digit with all combinations)

> 100 (3 digit with all combinations)

<1000 (4 digit with +5 & -5 combinations)

Single, Double & Triple digit Negative Numbers

Decimals: 3 digit with all combinations & 4 digit with +5 & -5 combinations

Mixed Sums with Addition, Subtraction & Multiplication

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Visualization: All combinations & Multiplication 2 x 1 & 3 x 1 digit

15

Level
Pre-Assessment &
Assessment

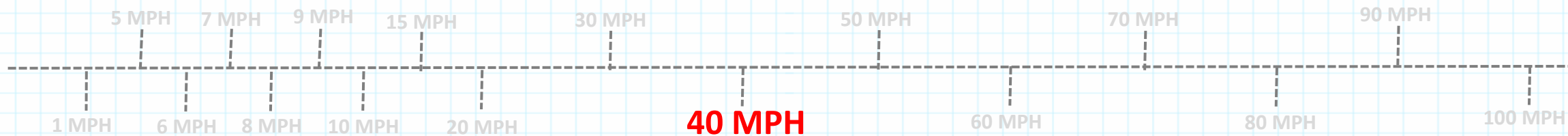
Level Graduation

Certification
&
Medal



16





1

< 1000 (4 digit +10 & -10 combinations)

Decimals: 3 digit all combinations & 4 digit
+10 / -10 combinations

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digits

Visualization: 2 digit all combinations,
Multiplication 2 x 1 & 3 x 1 digit

2

< 1000 (4 digit with all combinations)

> 1000 (4 digit all combinations)

>10000 (4 digit +10 combinations)

Decimals: 4 digit all combinations

Multiplication: 4 x 1 & 3 x 2 digits

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: <100 (2 digit with all combinations)

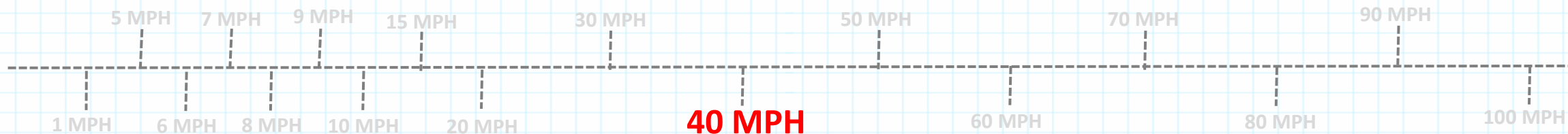
>100 (2 digit with all combinations)

>100 (3 digit lower beads)

Decimals: 3 digit lower beads

Multiplication: 2 x 1, 3 x 1 & 2 x 2 digits





3

<1000 (4 digit with all combinations)

>1000 (4 digit with all combinations)

>10000 (4 digit +10 combination)

Decimals: 4 digit with all combinations

Multiplication: 4 x 1 & 3 x 2 digits

Mixed Sums with Addition, Subtraction & Multiplication

Visualization: >100 (2 digit all combinations)

>100 (3 digit upper & lower beads)

Decimal: 3 digit upper & lower beads

Multiplication: 2 x 1, 3 x 1 & 2 x 2 digits

4

<1000 (4 digit with all combinations)

>1000 (4 digit all combinations)

>10000 (4 digit +10 combination)

Decimals: 4 digit all combinations

Multiplication: 4 x 1 & 3 x 2 digits

Mixed Sums with Addition, Subtraction & Multiplication

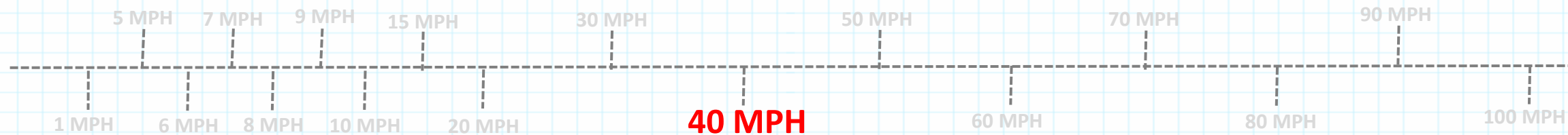
Visualization: >100 (2 digit all combinations)

>100 (3 digit +5 / -5 combinations)

<1000 (3 digit +5 combinations)

Decimal: 3 digit +5 combination

Multiplication: 2 x 1, 3 x 1 & 2 x 2 digits



5

>1000 (4 digit all combinations)

>10000 (4 digit.+10 combination)

Decimals: 5 digit all combinations

Multiplication: 3 x 2 digits

Introduction to Division: 2 ÷ 1 digit

Visualization: >100 (3 digit +5 / -5 combinations)

<1000 (3 digit - 5 combinations)

Decimal: 3 digit - 5 combinations

Multiplication: 3 x 1, 4 x 1 & 2 x 2 digits

6

>1000 (4 digit all combinations)

>10000 (4 digit +10 combination)

Decimals: 5 digit all combinations

Multiplication: 3 x 2 digits

Division: 2 ÷ 1 digit

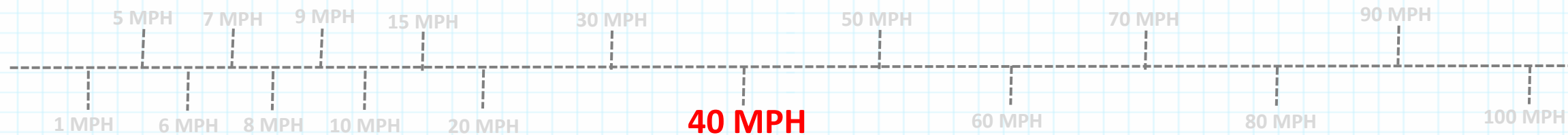
Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit +10 combinations)

<1000 (3 digit +5 & - 5 combinations)

Decimal: 3 digit +5 & - 5 combinations

Multiplication: 3 x 1, 4 x 1 & 2 x 2 digits



>1000 (4 digit all combinations)

>10000 (4 digit with -10 combinations)

Decimals: 5 digit all combinations

Multiplication: 3 x 2 digits

Division: 2 ÷ 1 digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

7

Visualization: >100 (3 digit - 10 combinations)

<1000 (3 digit +10 combinations)

Decimal: 3 digit +10 combinations

Multiplication: 3 x 1, 4 x 1 & 2 x 2 digits

8

>1000 (4 digit all combinations)

>10000 (4 digit with -10 combinations)

Decimals: 5 digit all combinations

Multiplication: 3 x 2 digits

Division: 2 ÷ 1 & 3 ÷ 1 digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

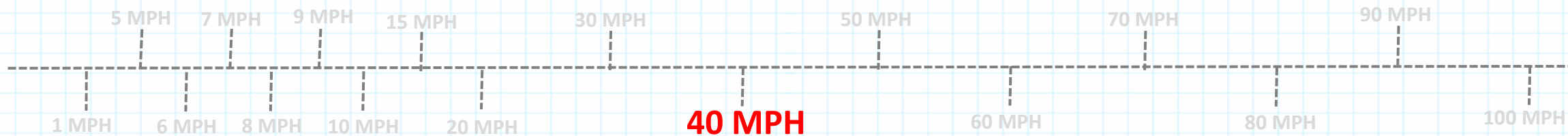
Visualization: >100 (3 digit all combinations)

<1000 (3 digit - 10 combinations)

Decimal: 3 digit - 10 combinations

Multiplication: 3 x 1, 4 x 1 & 2 x 2 digits

Division: 2 ÷ 1 digit



9

>1000 (4 digit all combinations)

>10000 (4 digit with -10 combinations)

Decimals: 5 digit all combinations

Multiplication: 3 x 2 digits

Division: 2 ÷ 1 digit & 3 ÷ 1 digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit all combinations)
<1000 (3 digit double combinations: +6 to +9)

Decimal: 3 digit - 10 combination

Multiplication: 4 x 1 & 2 x 2 digits

Division: 2 ÷ 1 digit

10

>10000 (4 digit with - 10 combinations)

Decimals: 5 & 4 digit all combinations

Multiplication: 3 x 2 digits

Division: 3 ÷ 1 & 4 ÷ 1 digit

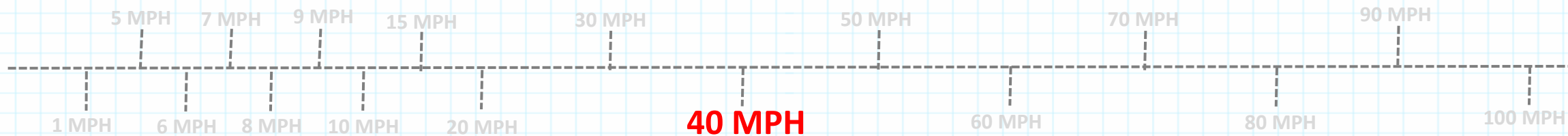
Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit all combinations)
<1000 (3 digit double combinations: +6 to +9)

Decimal: 3 digit - 10 combinations

Multiplication: 4 x 1 & 2 x 2 digits

Division: 2 ÷ 1 & 3 ÷ 1 digit



>10000 (4 digit with - 10 combinations)

Decimals: 5 & 4 digit all combinations

Multiplication: 3 x 2 digits

Division: $3 \div 1$ & $4 \div 1$ digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit all combinations)

<1000 (3 digit double combinations - 6 to - 9)

Decimal: 3 digit all combinations

Multiplication: 4 x 1 & 2 x 2 digits

Division: $2 \div 1$, $3 \div 1$ & $4 \div 1$ digit

11

>10000 (4 digit with all combinations)

Decimals: 5 & 4 digit all combinations

Multiplication: 3 x 2 digits

Division: $3 \div 1$ & $4 \div 1$ digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit all combinations)

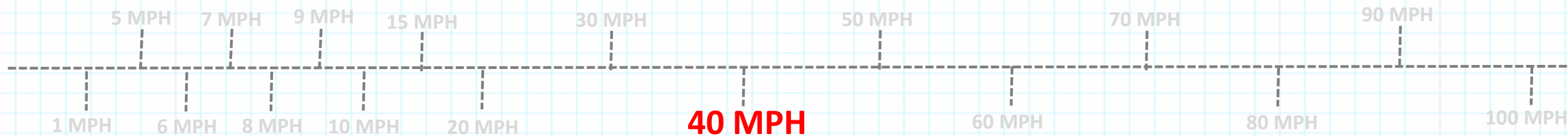
<1000 (3 digit double combinations - 6 to - 9)

Decimal: 3 digit all combinations

Multiplication: 4 x 1 & 2 x 2 digits

Division: $2 \div 1$, $3 \div 1$ & $4 \div 1$ digit

12



13

>10000 (4 digit with all combination)

Decimals: 5 & 4 digit all combinations

Multiplication: 3 x 2 digits

Division: $3 \div 1$ & $4 \div 1$ digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: >100 (3 digit all combinations)

<1000 (3 digit all combinations)

Decimal: 3 digit all combinations

Multiplication: 4×1 , 2×2 & 3×2 digits

Division: $2 \div 1$, $3 \div 1$ & $4 \div 1$ digit

14

>10000 (4 digit with all combination)

Decimals: 5 & 4 digit all combinations

Multiplication: 3 x 2 digits

Division: $3 \div 1$ & $4 \div 1$ digit

Mixed Sums with Addition, Subtraction,
Multiplication & Division

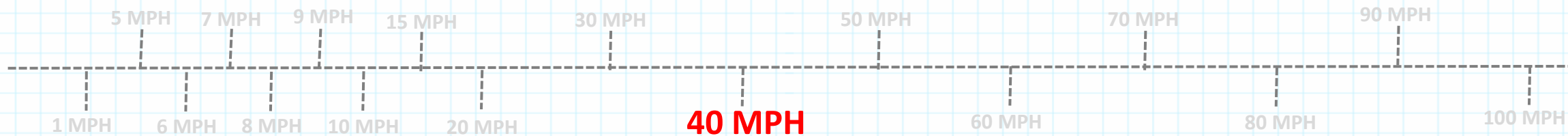
Visualization: <1000 (3 digit all combinations)

Decimal: 3 digit all combinations

Multiplication: 4×1 , 2×2 & 3×2 digits

Division: $3 \div 1$ & $4 \div 1$ digit





Mixed Sums with Addition, Subtraction,
Multiplication & Division

Visualization: <1000 (3 digit all combinations)

Decimal: 3 digit all combinations

Multiplication: 4 x 1, 2 x 2 & 3 x 2 digit

Division: 3 ÷ 1 & 4 ÷ 1 digit

15

Level
Pre-Assessment &
Assessment

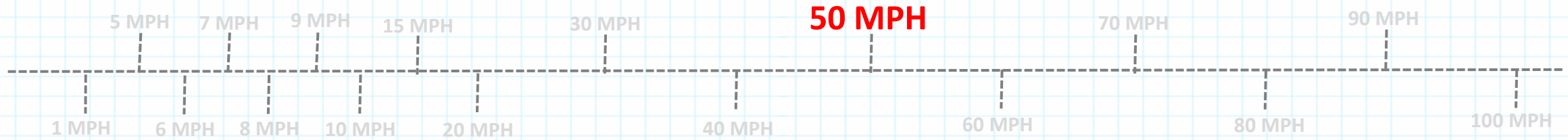
Level Graduation

Certification
&
Medal



16





1

>1000 (3 & 2 digit mixed with all combinations)

>10000 (4 & 3 digit mixed all combinations)

Decimal: (5 & 4 digit mixed all combinations)

Multiplication: 3 x 2 digit

Divisions: 3 ÷ 1 & 4 ÷ 1 digit

Mixed Sums: Addition, Subtraction,
Multiplication & Division

Visualization: >1000 (3 digit all combinations)

>10000 (4 digit all combinations)

Decimals: 3 digit all combinations

Multiplication: 4 x 1, 2 x 2 & 3x2 digits

Divisions: 3 ÷ 1 & 4 ÷ 1 digit

2

>1000 (3 & 2 digit mixed with all combinations)

>10000 (4 & 3 digit mixed all combinations)

Decimal:(5 & 4 digit mixed all combinations)

Multiplication: 3 x 2 digit

Divisions: 4 ÷ 1 & 3 ÷ 2 digit

Mixed Sums : Addition, Subtraction,
Multiplication & Division

Visualization: >1000 (3 digit all combinations)

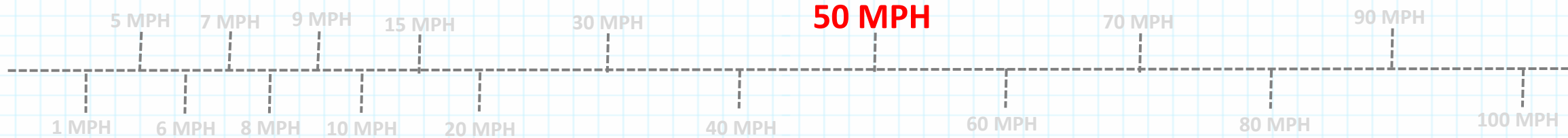
>10000 (4 digit all combinations)

Decimals: 3 digit all combinations

Multiplication: 4 x 1, 2 x 2 & 3x2 digits

Divisions: 3 ÷ 1 & 4 ÷ 1 digit





3

>1000 (4 & 3 digit mixed with all combinations)

>10000 (5 digit sums lower beads only no combination)

Decimal: (5 & 4 digit mixed all combinations)

Multiplication: 3 x 2 digit

Divisions: $4 \div 1$ & $3 \div 2$ digit

Mixed Sums: Addition, Subtraction,
Multiplication & Division

Visualization: >1000 (3 digit all combinations)

>10000 (4 digit all combinations)

Decimals: 3 digit all combinations

Multiplication: 4 x 1, 2 x 2 & 3x2 digits

Divisions: $3 \div 1$ & $4 \div 1$ digit

4

>1000 (4 & 3 digit mixed with all combinations)

>10000 (5 digit sums lower beads only no combination)

Decimal: (5 & 4 digit mixed all combinations)

Multiplication: 3 x 2 digit

Divisions: $4 \div 1$ & $3 \div 2$ digit

Mixed Sums: Addition, Subtraction,
Multiplication & Division

Visualization: >1000 (3 digit all combinations)

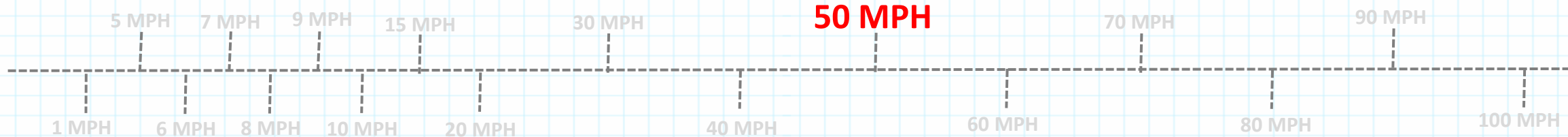
>10000 (5 digit lower beads only no combination)

Decimals: 3 digit all combinations

Multiplication: 2 x 2 & 3x2 digit

Divisions: $4 \div 1$ & $3 \div 2$ digit





5

>1000 (4 & 3 digit mixed with all combinations)

>10000 (5 digit sums lower beads only no combination)

Decimal: (5 & 4 digit mixed all combinations)

Multiplication: 3 x 2 digit & 4 x 2 digit

Divisions: $4 \div 1$ & $3 \div 2$ digit

Mixed Sums: Addition, Subtraction, Multiplication
& Division

Visualization: >1000 (3 digit all combinations)
>10000 (5 digit lower beads only no combination)
Decimals: 3 digit all combinations
Multiplication: 2 x 2 & 3x2 digit
Divisions: $4 \div 1$ & $3 \div 2$ digit

6

>1000 (4 digit, 3 digit & 2 digit mixed with all combinations)

>10000 (5 digit sums upper & lower beads no combination)

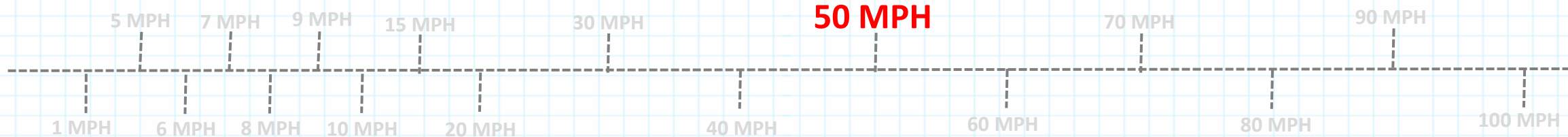
Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 2 & 4 x 2 digit

Divisions: $4 \div 1$ & $3 \div 2$ digit

Mixed Sums: Addition, Subtraction, Multiplication
& Division

Visualization: >1000 (3 digit all combinations)
>10000 (5 digit lower beads only no combination)
Decimals: 3 digit all combinations
Multiplication: 2 x 2 digit & 3x2 digit
Divisions: $4 \div 1$ & $3 \div 2$ digit



7

>1000 (4, 3 & 2 Digit mixed with all combinations)

>10000 (5 digit sums upper & lower beads no combination)

Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 2 & 4 x 2 digit

Divisions: 3 ÷ 2 & 4 ÷ 2 digit

Mixed Sums: Addition, Subtraction, Multiplication & Division

Visualization: >1000 (3 digit all combinations)
>10000 (5 digit lower beads only no combination)

Decimals: 3 digit all combinations

Multiplication: 2 x 2, 3x2 & 4 x 2 digit

Divisions: 4 ÷ 1 & 3 ÷ 2 digit

8

>1000 (4, 3 & 2 Digit mixed with all combinations)

>10000 (5 digit sums upper & lower beads no combination)

Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 2 & 4 x 2 digit

Divisions: 3 ÷ 2 & 4 ÷ 2 digit

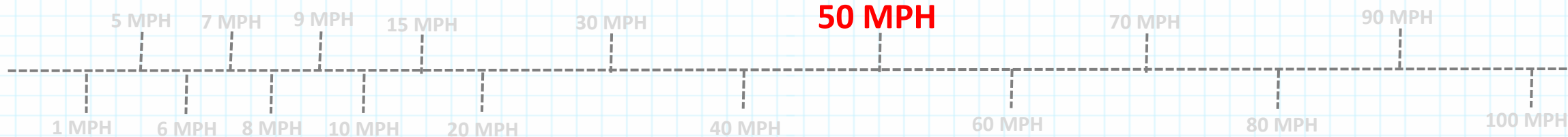
Mixed Sums: Addition, Subtraction, Multiplication & Division

Visualization: >1000 (3 digit all combinations)
>10000 (5 digit upper & lower beads only no combination)

Decimals: 3 digit all combinations

Multiplication: 2 x 2, 3x2 & 4 x 2 digit

Divisions: 4 ÷ 1 & 3 ÷ 2 digit



9

>1000 (4, 3 & 2 Digit mixed with all combinations)

>10000 (5 Digit sums +5 & - 5 combinations)

Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 2 & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

Mixed Sums: Addition, Subtraction, Multiplication & Division

Visualization: >1000 (3 digit all combinations)
>10000 (5 digit lower beads only no combination)

Decimals: 3 digit all combinations

Multiplication: 2 x 2, 3x2, & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

10

>10000 (5 Digit sums upper & lower beads +5 & - 5 combination)

Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

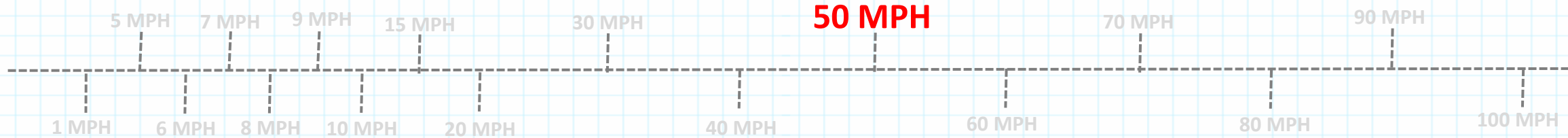
Mixed Sums: Addition, Subtraction, Multiplication & Division

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5 digit lower beads only no combination)

Decimals: 3 digit all combinations

Multiplication: 2 x 2, 3x2 & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit



>10000 (5 digit sums +10 combinations)

Decimal: (5, 4 & 3 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

Introduction to Fractions: Improper Fraction

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5 digit + 5 & - 5 combinations)

Decimals: 3 digit all combinations

Multiplication: 3×2 & 4×2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

11

>10000 (5 digit sums - 10 combinations)

Decimal: (5, 4, 3 & 2 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digit

Divisions: $3 \div 2$ & $4 \div 2$ digit

Improper Fraction

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5 digit + 5 & - 5 combinations)

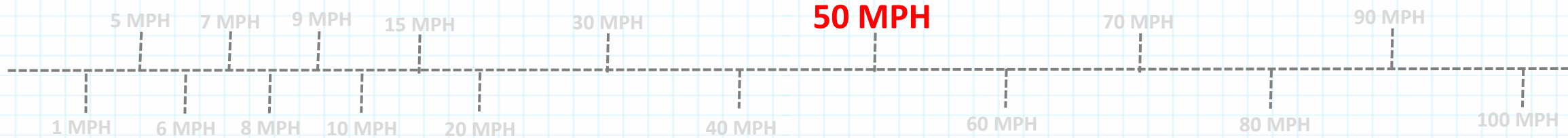
Decimals: 3 digit all combinations

Multiplication: 3×2 & 4×2 digit

Divisions: $4 \div 2$ & $3 \div 2$ digit

12





13

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (5, 4, 3 & 2 Digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digit

Divisions: 3 ÷ 2 & 4 ÷ 2 digit

Improper Fraction to Mixed Fractions

Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5 digit +10 combinations)

Decimals: 3 digit all combinations

Multiplication: 3x2, 4 x 2 & 3 x 3 digit

Divisions: 4 ÷ 2 & 3 ÷ 2 digit

14

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (5, 4, 3 & 2 Digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digit

Divisions: 3 ÷ 2 & 4 ÷ 2 digit

Improper Fraction to Mixed Fractions

Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

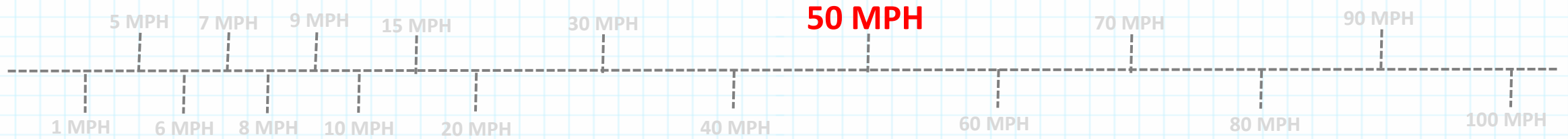
>10000 (5 digit -10 combinations)

Decimals: 3 digit all combinations

Multiplication: 3x2, 4 x 2 & 3 x 3 digit

Divisions: 4 ÷ 2 & 3 ÷ 2 digit





Mixed Sums: Addition, Subtraction,
Multiplication, Division & Fractions

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)

>10000 (all combinations)

Decimals: 3 digit all combinations

Multiplication: 3x2, 4 x 2 & 3 x 3 digit

Divisions: 4 ÷ 2 & 3 ÷ 2 digit

15

Level
Pre-Assessment &
Assessment

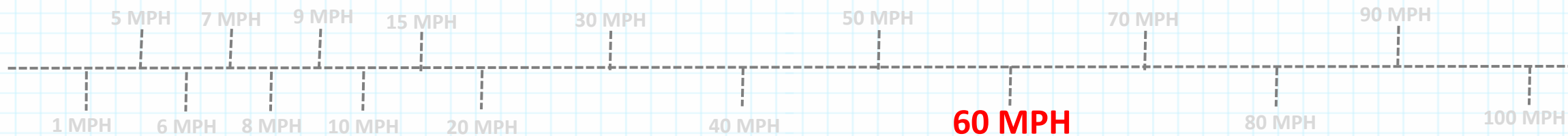
Level Graduation

Certification
&
Medal



16





1

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (5, 4, 3 & 2 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digits

Divisions: 4 ÷ 2 & 5 ÷ 1 digit

Improper Fraction to Mixed Fractions

Addition & Subtraction of fractions [NO LCM]

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5 digit all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 2, 4 x 2 & 3 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits

2

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (5, 4, 3 & 2 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 2 digits

Divisions: 4 ÷ 2 & 5 ÷ 1 digit

Improper Fraction to Mixed Fractions

Addition & Subtraction of fractions [NO LCM]

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

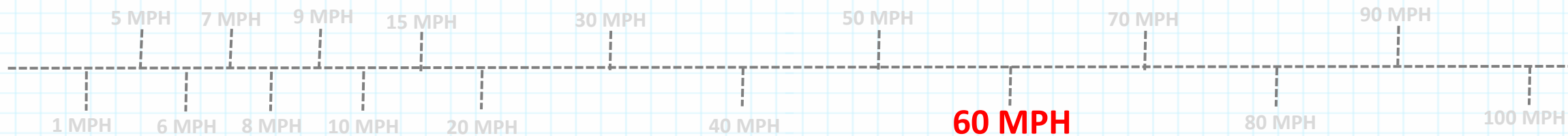
>10000 (5 digit all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 2, 4 x 2 & 3 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits





3

Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5 digit all combinations)
Decimals: 3 digit all combinations
Multiplication: 3×2 , 4×2 & 3×3 digits
Divisions: $5 \div 1$ & $4 \div 2$ digits

4

>10000 (5, 4 & 3 digit mixed all combinations)

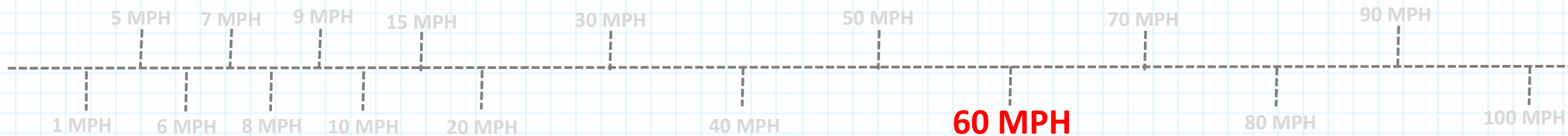
Decimal: (5, 4, 3 & 2 digit mixed all combinations)

Multiplication: 3×3 & 4×3 digits

Divisions: $4 \div 2$ & $5 \div 1$ digit

Improper Fraction to Mixed Fractions
Addition & Subtraction of fractions [WITH LCM]

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5 digit all combinations)
Decimals: 3 digit all combinations
Multiplication: 3×2 , 4×2 & 3×3 digits
Divisions: $5 \div 2$ & $4 \div 2$ digits



5

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (5, 4, 3 & 2 digit mixed all combinations)

Multiplication: 3 x 3 & 4 x 3 digits

Divisions: 4 ÷ 2 & 5 ÷ 1 digit

Mixed Fractions to Improper Fractions

Addition & Subtraction of Fractions [WITH LCM]

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5 digit, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 2, 4 x 2 & 3 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits

6

Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digits all combinations)

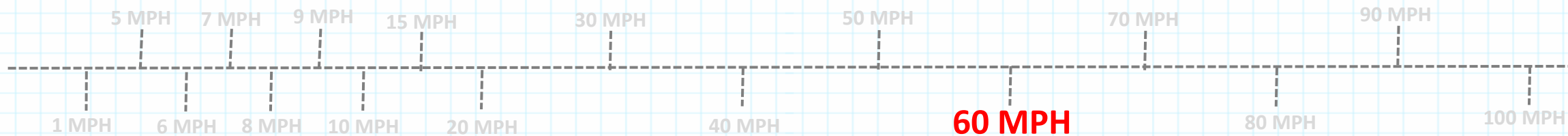
>1000 (3 & 2 digits mixed with all combinations)

>10000 (5 digit, 4 & 3 digits mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 4 x 2 & 3 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits



Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 3 & 4 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits

7

>10000 (5 digit, 4 & 3 digit mixed all combinations)

Decimal: (6 digit all combinations.)

Multiplication: 4 x 3 & 5 x 2 digits

Divisions: 5 ÷ 1 & 5 ÷ 2 digits

Mixed Fractions to Improper Fraction
Addition & Subtraction of Fractions [WITH LCM]

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5, 4 & 3 digit mixed all combinations)

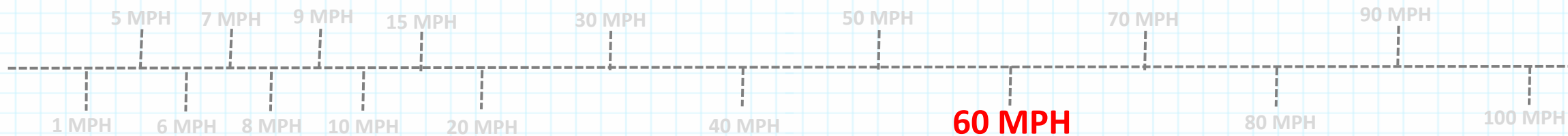
Decimals: 3 digit all combinations

Multiplication: 3 x 3 & 4 x 3 digits

Divisions: 5 ÷ 1 & 4 ÷ 2 digits

8





9

Mixed Sums: Addition, Subtraction, Multiplication,
Division & Fractions

Visualization: >1000 (3 digit all combinations)
 >1000 (3 & 2 digit mixed with all combinations)
 >10000 (5, 4 & 3 digit mixed all combinations)
 Decimals: 3 digit all combinations
 Multiplication: 3 x 3 & 4 x 3 digits
 Divisions: $5 \div 1$ & $4 \div 2$ digits

10

>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (6 digit all combinations.)

Multiplication: 4 x 3 & 5 x 2 digits

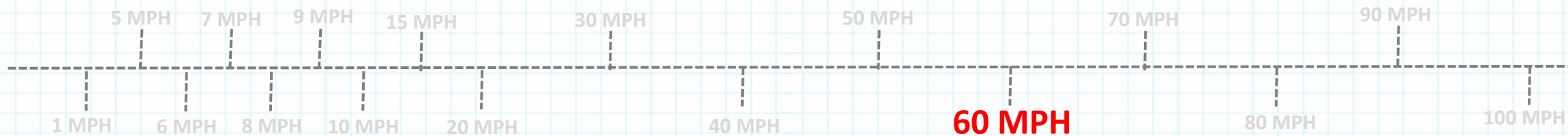
Divisions: $5 \div 1$ & $5 \div 2$ digits

Mixed fractions to improper fractions

Multiplication of fractions

Visualization: >1000 (3 digit all combinations)
 >1000 (3 & 2 digit mixed with all combinations)
 >10000 (5, 4 & 3 digit mixed all combinations)
 Decimals: 3 digit all combinations
 Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits
 Divisions: $5 \div 1$, $5 \div 2$ & $4 \div 2$ digits





>10000 (5, 4 & 3 digit mixed all combinations)

Decimal: (6 digit all combinations.)

Multiplication: 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $5 \div 3$ digits

Multiplication of Fractions

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

>10000 (5, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $4 \div 2$ digits

11

Decimal: (6 & 5 digit all combinations.)

Mixed Sums: Addition, Subtraction, Multiplication, Division, Fractions & Multiplication of Fractions

Visualization: >1000 (3 digit all combinations)

>1000 (3 & 2 digit mixed with all combinations)

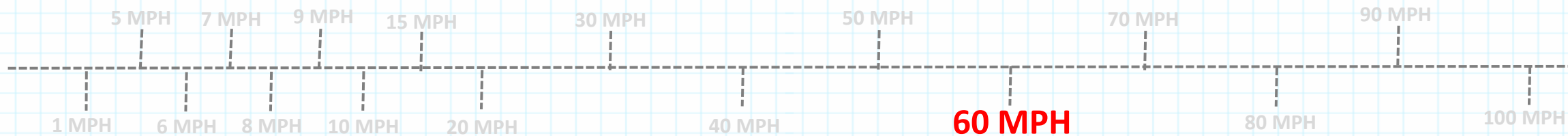
>10000 (5, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $4 \div 2$ digits

12



Decimal: (6 & 5 digit all combinations)

Mixed Sums: Addition, Subtraction, Multiplication, Division, Fractions & Multiplication of Fractions

Visualization: >1000 (3 digit all combinations)
 >1000 (3 & 2 digit mixed with all combinations)
 >10000 (5, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $5 \div 3$ digits

13

Decimal: (6 & 5 digit all combinations)

Mixed Sums: Addition, Subtraction, Multiplication, Division, Fractions & Multiplication of Fractions

Visualization: >1000 (3 digit all combinations)
 >1000 (3 & 2 digit mixed with all combinations)
 >10000 (5, 4 & 3 digit mixed all combinations)

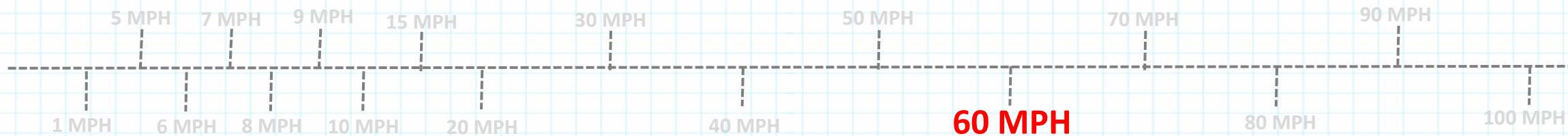
Decimals: 3 digit all combinations

Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $5 \div 3$ digits

14





Only Mental Calculations

Visualization: >1000 (3 digit all combinations)
>1000 (3 & 2 digit mixed with all combinations)
>10000 (5, 4 & 3 digit mixed all combinations)

Decimals: 3 digit all combinations

Multiplication: 3 x 3, 4 x 3 & 5 x 2 digits

Divisions: $5 \div 1$, $5 \div 2$ & $5 \div 3$

Multiplication of fractions.

15

Level
Pre-Assessment &
Assessment

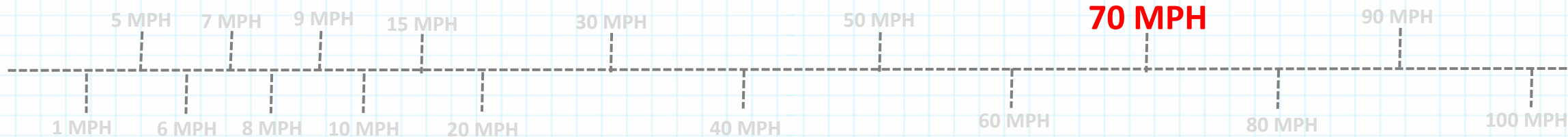
Level Graduation

Certification
&
Medal



16





1

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4×3 & 5×2 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Concept of Proper Fractions

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>10000 (5, 4 & 3 digits mixed all combinations)

Decimals: 3 digits all combinations

Multiplications: 4×3 & 5×2 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits

2

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4×3 & 5×2 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Proper Fractions - Addition

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

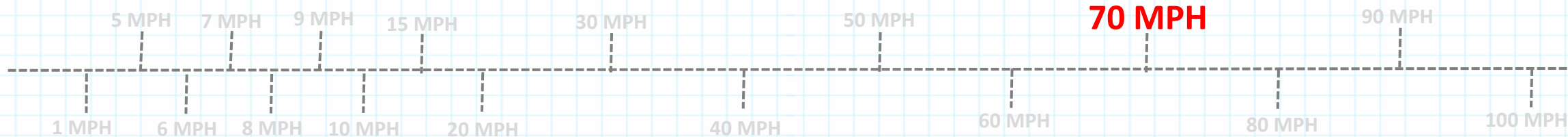
>10000 (5, 4 & 3 digits mixed All combinations)

Decimals: 3 digits all combinations

Multiplications: 4×3 & 5×2 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits





3

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4×3 & 5×2 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Proper Fractions - Addition

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>10000 (5, 4 & 3 digits mixed all combinations)

Decimals: 3 digits all combinations

Multiplications: 4×3 & 5×2 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits

4

Mixed Sums: Addition, Subtraction, Multiplication,
Division, Fractions & Multiplication of Fractions

Visualization >1000 (3 digits all combinations)

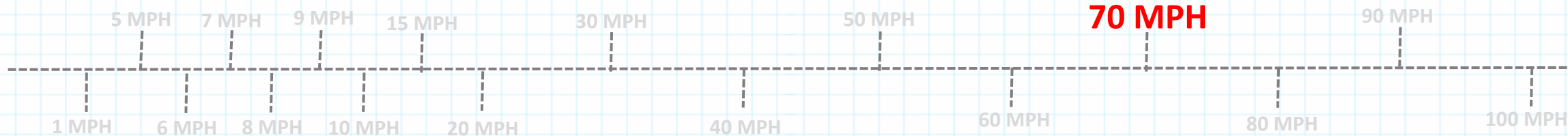
>1000 (3 & 2 digits mixed with all combinations)

>10000 (5, 4 & 3 digits mixed all combinations)

Decimals: 3 digits all combinations

Multiplication: 4×3 & 5×2 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits



5

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 2 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions - Addition

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 2 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

6

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions - Subtraction

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

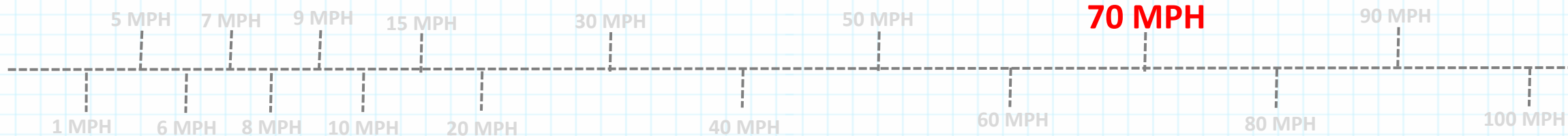
>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 2 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits





>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions - Subtraction

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

7

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions - Subtraction

Multiplication of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

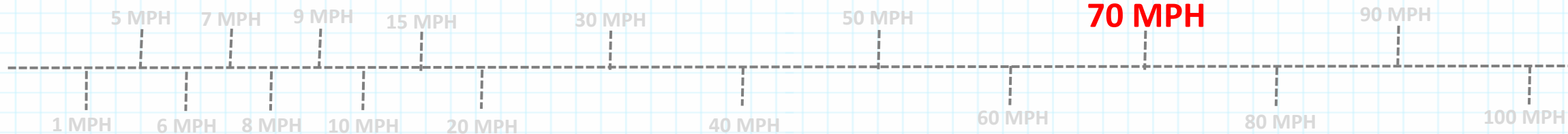
Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

8





9

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions - Subtraction
Division of Fractions

Visualization: >1000 (3 digits all combinations)
>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Introduction to Percentage

10

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)
>1000 (3 & 2 digits mixed with all combinations)

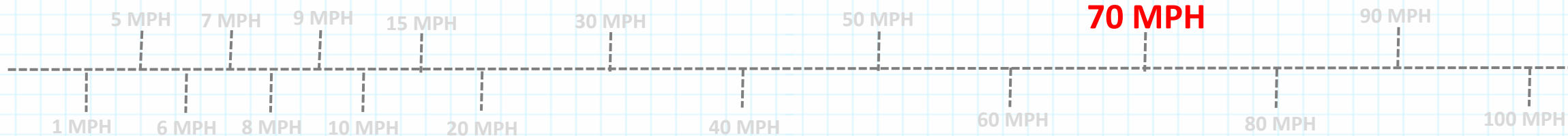
>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Percentage further expanded



>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 3, 5 x 3 & 4 x 4 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits

Introduction to Squares

Percentage further expanded

11

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

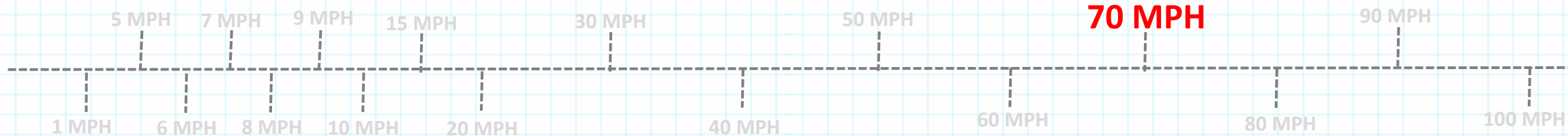
Divisions: $5 \div 2$ & $5 \div 3$ digits

Squares further expanded

Percentage further expanded

12





>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Squares further expanded

Percentage further expanded

13

>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

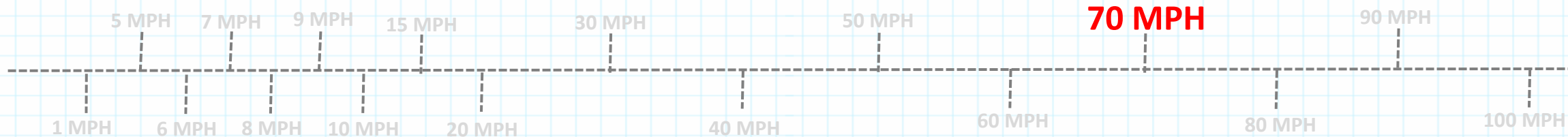
Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Squares further expanded

Percentage further expanded

14





>100000 (5 digits with all combinations)

Decimal: (6, 5 & 4 digits all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Proper Fractions – Mixed sums (addition & subtraction)

Division of Fractions

Visualization: >1000 (3 digits all combinations)

>1000 (3 & 2 digits mixed with all combinations)

>100000 (5 digits with all combinations)

Decimals: 4, 3 and 2 digits all combinations

Multiplications: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Squares further expanded

Percentage further expanded

15

Level
Pre-Assessment &
Assessment

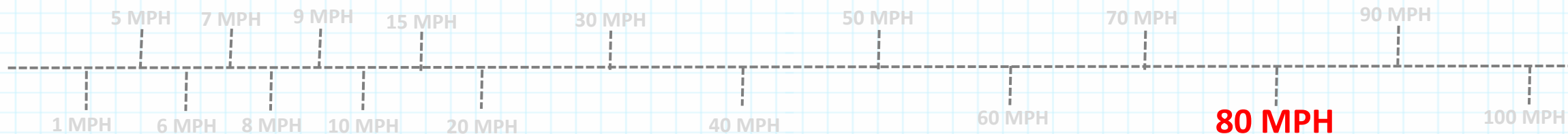
Level Graduation

Certification
&
Medal



16





1

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×3 & 5×4 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6 digits +10 & -10 combinations)

Decimals: various digit mixed combinations

Multiplication: 4×3 & 5×3 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits

Percentage & Squares

2

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×3 & 5×4 digits

Divisions: $4 \div 3$, $5 \div 2$ & $5 \div 3$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6 digits +10 & -10 combinations)

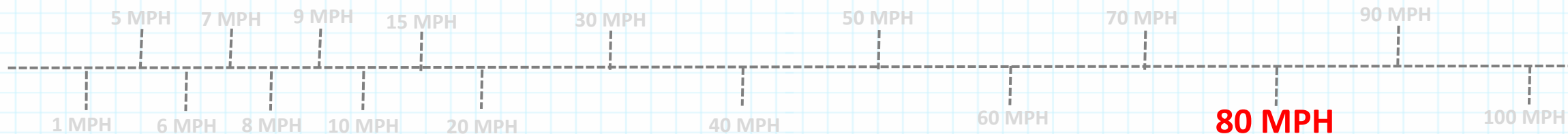
Decimals: various digit mixed combinations

Multiplication: 4×3 & 5×3 digits

Divisions: $5 \div 2$ & $5 \div 3$ digits

Percentage & Squares





3

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Mixed sums: (a x a) ÷ b

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6 digits +10 & -10 combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Percentage & Squares

4

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 3 & 5 x 4 digits

Divisions: 4 ÷ 3, 5 ÷ 2 & 5 ÷ 3 digits

Mixed sums: (a x a) ÷ b

Fractions – Mixed sums (division, multiplication, addition & subtraction)

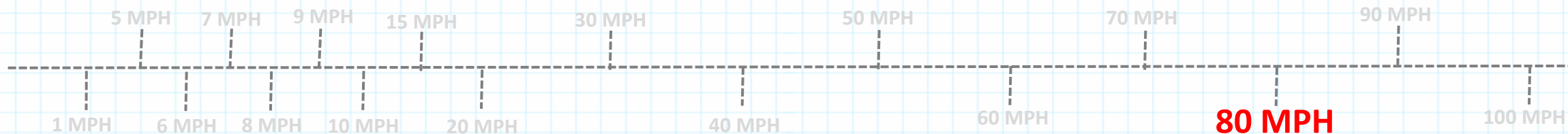
Visualization: Multiplication & Division Mixed Sums >100000 (6 digits +10 & -10 combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 3 & 5 x 3 digits

Divisions: 5 ÷ 2 & 5 ÷ 3 digits

Percentage & Squares



5

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Introduction to Square Roots

Percentage & Squares

6

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

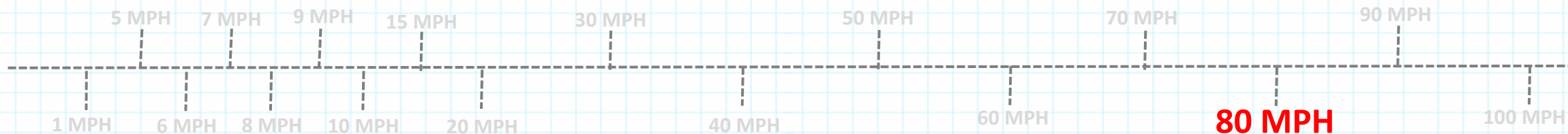
Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Square Roots

Percentage & Squares



(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Square Roots

Percentage & Squares

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $(a \times a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6, 5 & 4 digits mixed all combinations)

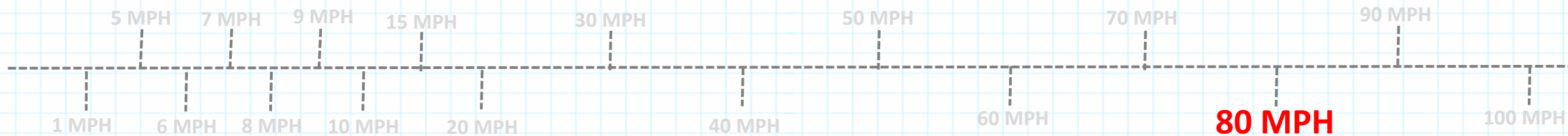
Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Square Roots

Percentage & Squares



9

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares

10

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

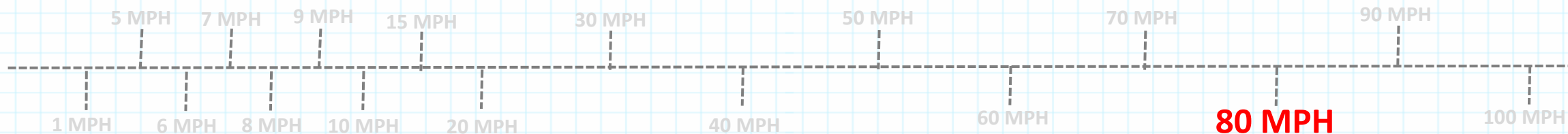
Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares





(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Square Roots

Percentage & Squares

11

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

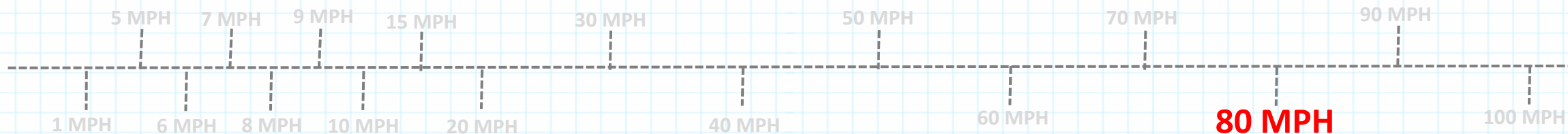
Divisions: $5 \div 3$ & $6 \div 2$ digits

Square Roots

Percentage & Squares

12





(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares

13

(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

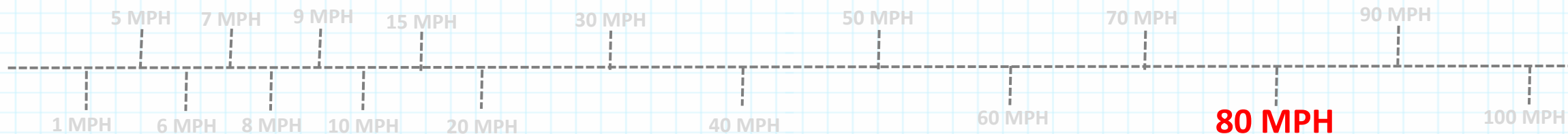
Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares

14





(6, 5 & 4 digits mixed all combinations)

Decimal: (6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Mixed sums: $b(a + a - a) ÷ b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares

15

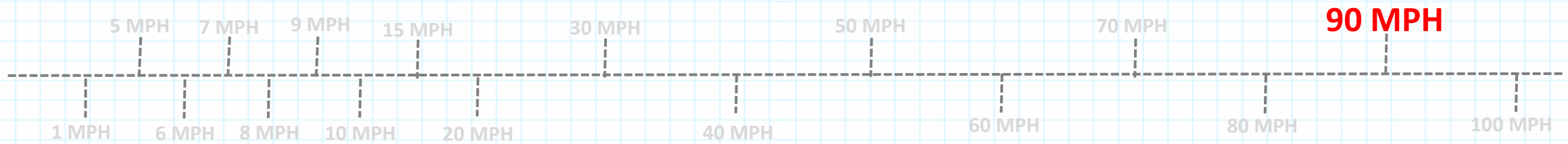
Level
Pre-Assessment &
Assessment

Level Graduation

Certification
&
Medal



16



1

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) ÷ b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares

2

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) ÷ b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

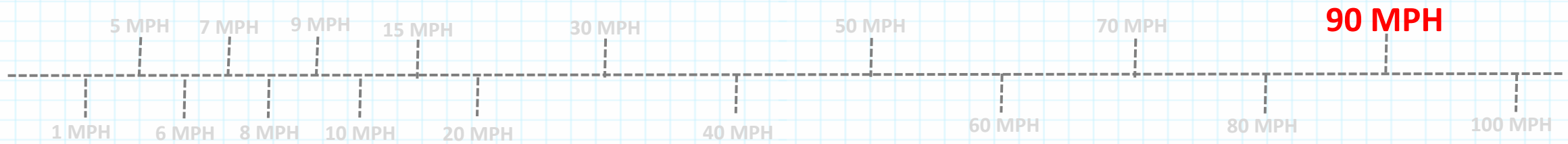
Multiplication: 4 x 4 & 5 x 4 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Square Roots

Percentage & Squares





3

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 5 x 5 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Addition of Square Roots

Percentage & Squares

4

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

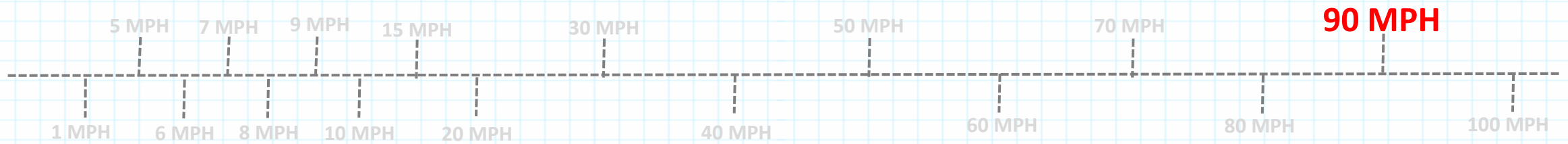
Decimals: various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Addition of Square Roots

Percentage & Squares



5

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Addition of Square Roots

Percentage & Squares

6

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

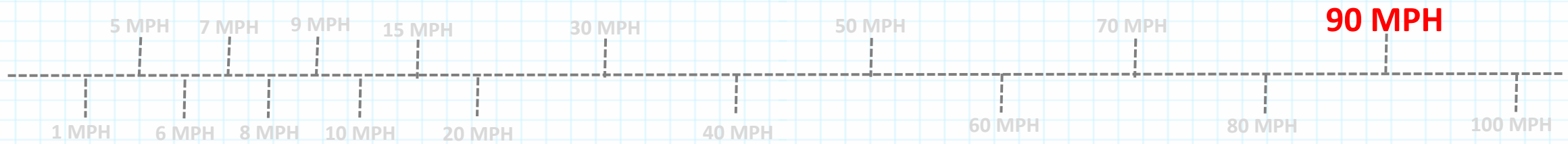
Decimals: various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Subtraction of Square Roots

Percentage & Squares



(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$, $6 \div 2$ & $6 \div 3$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Subtraction of Square Roots

Percentage & Squares

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$, $6 \div 2$ & $6 \div 3$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

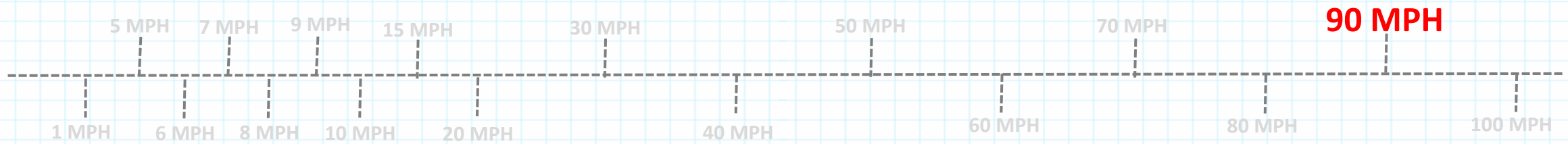
Decimals: various digit mixed combinations

Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Subtraction of Square Roots

Percentage & Squares



9

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Multiplication of Square Roots

Percentage & Squares

10

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

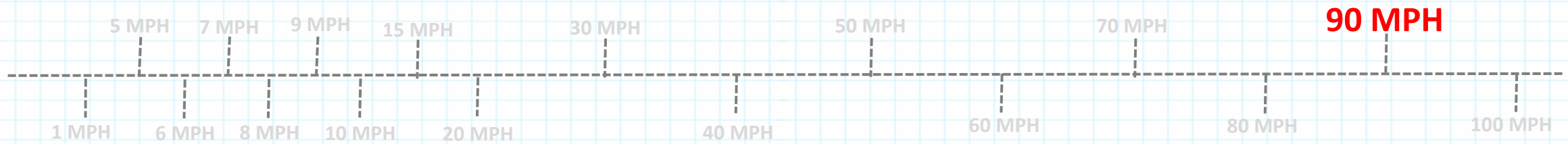
Decimals: Various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Multiplication of Square Roots

Percentage & Squares



(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$, $6 \div 2$ & $6 \div 3$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Multiplication of Square Roots

Percentage & Squares

11

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$, $6 \div 2$ & $6 \div 3$ digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

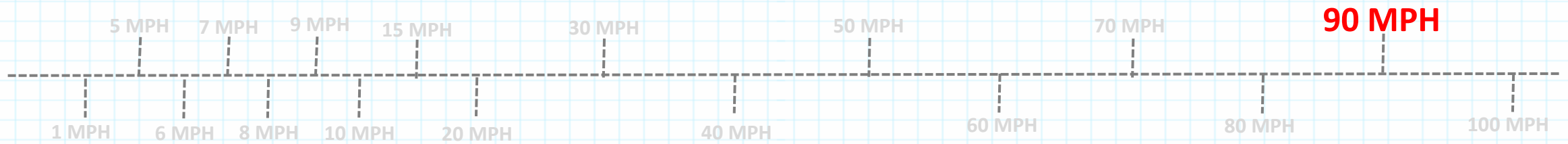
Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 2$ digits

Division of Square Roots

Percentage & Squares

12



(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Division of Square Roots

Percentage & Squares

13

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) \div b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

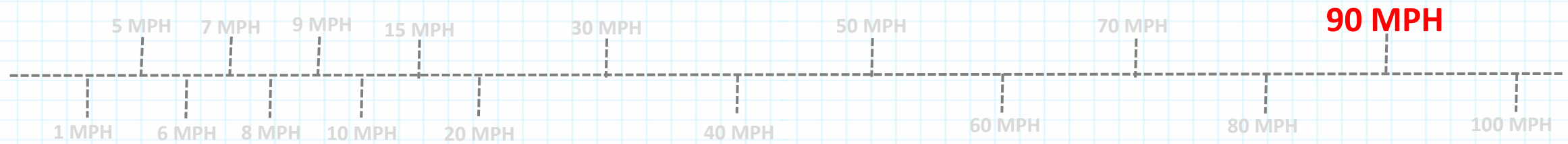
Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Division of Square Roots

Percentage & Squares

14



(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3, 6 ÷ 2 & 6 ÷ 3 digits

Mixed sums: $b(a + a - a) ÷ b$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: Various digit mixed combinations

Multiplication: 4 x 4, 5 x 4 & 6 x 2 digits

Divisions: 5 ÷ 3 & 6 ÷ 2 digits

Division of Square Roots

Percentage & Squares

15

Level
Pre-Assessment &
Assessment

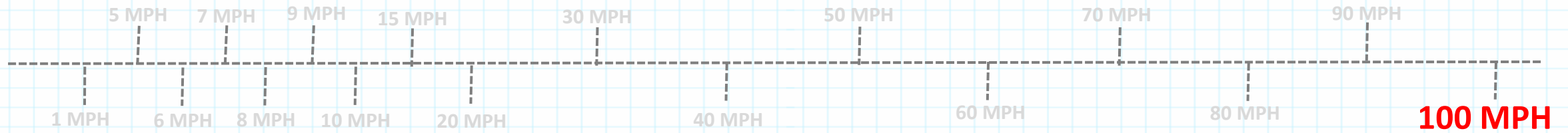
Level Graduation

Certification
&
Medal



16





1

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 3$ digits

Multiplication & Division of Square Roots

Percentage & Squares

2

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

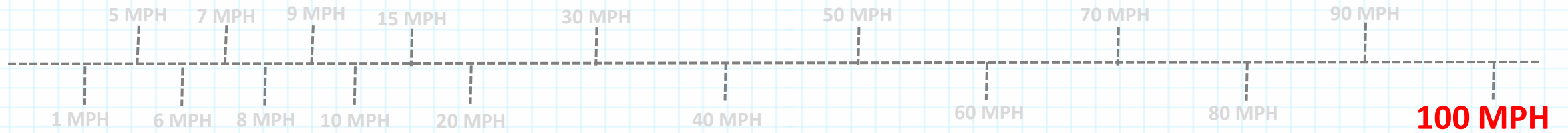
Decimals: various digit mixed combinations

Multiplication: 4×4 , 5×4 & 6×2 digits

Divisions: $5 \div 3$ & $6 \div 3$ digits

Multiplication & Division of Square Roots

Percentage & Squares



3

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Introduction to Cubes

4

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

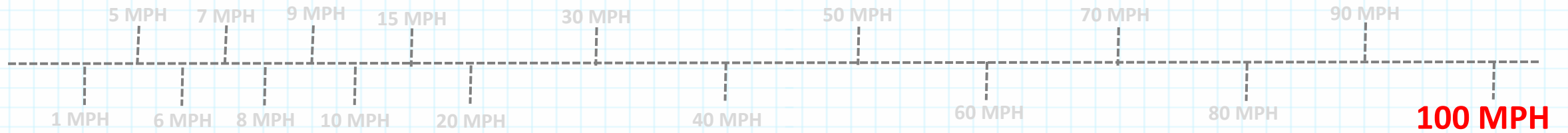
Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Cubes further expanded



5

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5 x 5, 6 x 2 & 6 x 3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5 x 5, 6 x 2 & 6 x 3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Cubes further expanded

Introduction to Cube Roots

6

(7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5 x 5, 6 x 2 & 6 x 3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5 x 5, 6 x 2 & 6 x 3 digits

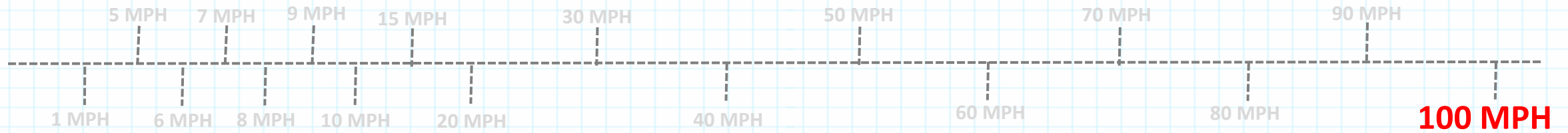
Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Cubes further expanded

Cube Roots further expanded



(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Addition of Cube Roots

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

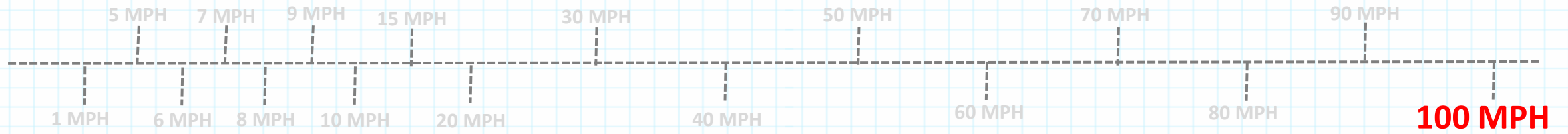
Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Addition of Cube Roots



9

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Subtraction of Cube Roots

10

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

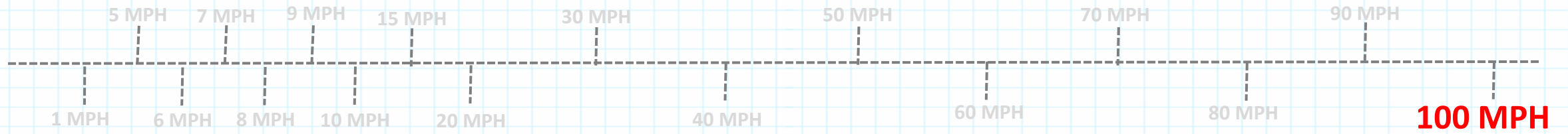
Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Subtraction of Cube Roots





(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Multiplication of Cube Roots

11

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 5×5 , 6×2 & 6×3 digits

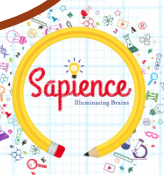
Divisions: $6 \div 3$ & $7 \div 2$ digits

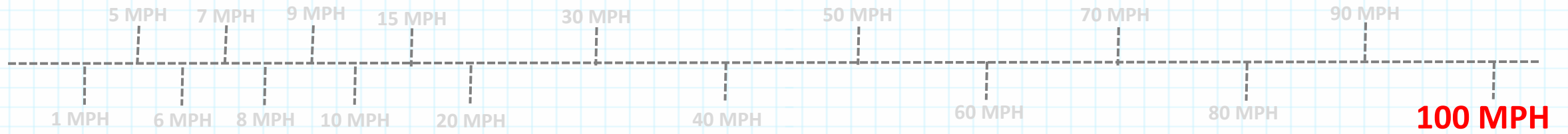
Multiplication & Division of Square Roots

Percentage & Squares

Multiplication of Cube Roots

12





(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Division of Cube Roots

13

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums >100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 6×2 , 6×3 & 7×2 digits

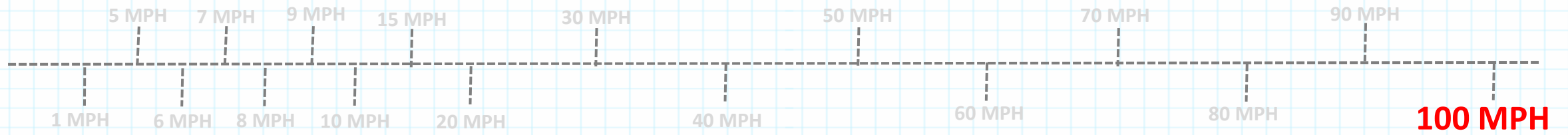
Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Division of Cube Roots

14



15

(8, 7, 6, 5 & 4 digits mixed all combinations)

Decimal: (7, 6, 5, 4 & 3 digits mixed all combinations)

Multiplications: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Mixed sums: $b/c(a + a - a) \div b/c$

Fractions – Mixed sums (division, multiplication, addition & subtraction)

Visualization: Multiplication & Division Mixed Sums
>100000 (6, 5 & 4 digits mixed all combinations)

Decimals: various digit mixed combinations

Multiplication: 6×2 , 6×3 & 7×2 digits

Divisions: $6 \div 3$ & $7 \div 2$ digits

Multiplication & Division of Square Roots

Percentage & Squares

Division of Cube Roots

16

Level
Pre-Assessment &
Assessment

Level Graduation

Certification
&
Medal

