MULTIPLICATIVE THINKING – SET 7

Ⓐ *Knows all times tables as well as the inverse division times tables.*

7 x 8 = 56 ⟶ 56 ÷ 8 =

4 x ? = 36 ⟶ 36 ÷ 4 =

Ⓑ *Use known facts to split and solve problems.*

208 ÷ 8 =

Inverse 8 x ? = 208

Find known fact 8 x 10 = 80

Double it 8 x 20 = 160

Work out the difference 208 – 160 = 48

Solve the difference 8 x 6 = 48

Add the answers 20 + 6 = 26

208 ÷ 8 = 26

Ⓒ *Use rounding and compensation to solve problems.*

37 x 5 =

Round number up 37 + *3* = 40

Round up 40 x 5 = 200

Compensate *3* x 5 = 15

Find the difference 200 – 15 = 185

37 x 5 = 185

Ⓓ *Multiplying and dividing simple decimals and fractions and percentages.*

Double to solve

350% of 4 =

3.5 X 4 =

7 x 4 = 28

3.5 x 4 = 14

350% of 4 = 14

Split to solve

5.5 x 7 =

5 x 7 = 35

½ x 7 = 3.5

35 + 3.5 = 38.5

5.5 x 7 = 38.5

Double to solve

72 ÷ 4.5 =

72 ÷ 9 = 8

72 ÷ 4.5 = 16

Double both to solve

15 ÷1 ½ =

30 ÷ 3 = 10

Ⓔ *Cross Products Multiplication Method*

(This method can solve all multiplication problems)

86 x 23 =

	x	10s **80**	1s **6**
10s	**20**	1,600	120
1s	**3**	240	18

1,600 + 240 + 120 + 18

1978

Ⓕ *Long Division*

(This method can solve all division problems)

364 ÷ 14 =

Divide: 36 ÷ 14 = 2 with left over

Multiply: 2 x 14 = 28

Subtract: 36 – 28 =

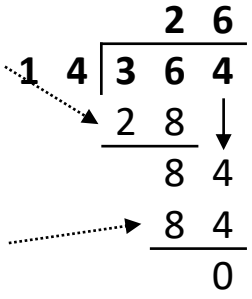
Bring Down: the 4

(Repeat) Divide : 84 ÷ 14 = 6

Multiply: 6 x 14 = 84

Subtract: 84 – 84 = 0

Bring down: as the answer is 0 there is no remainder so is the end.



364 ÷ 14 = 26

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