MULTIPLICATIVE THINKING – SET 6

Ⓐ *Knows all times tables up to 10*

8 x 7 = 56
9 x 3 = 27
5 x 4 = 20

Ⓑ *Know some division facts.*

12 ÷ 2 = 6
27 ÷ 3 = 9
16 ÷ 4 = 4
30 ÷ 5 = 6
80 ÷ 10 = 8

Ⓒ *Solves simple fractions using division knowledge*

½ of 24 = 24 ÷ 2 = 12
⅓ of 18 = 18 ÷ 3 = 6
⅕ of 40 = 40 ÷ 5 = 8
¼ of 28 = 28 ÷ 4 = 7

Ⓓ *Half and Double*

14 x 4 =
7 x 8 = 56

18 x 5 =
9 x 10 = 90

18 x 5 =
9 x 10 = 90

ⓔ *Place Value Partioning*

6 x 17 =
Multiply the tens 6 x 10 = 60
Multiply the ones 6 x 7 = 42
Add together 6 x (10 + 7) = (60 + 42)
6 x 17 = 102

Ⓓ *Rounding and Compensation*

95 x 7 =
Round 100 x 7 =700
Compensate -(5 x 7) = 35
Find difference 700 – 35 = 665
95 x 7 = 665

ⓕ *Using known multiplication facts to solve unknown problems*

8 x ? = 112
Multiply the 10s 8 x <u>10</u> = 80
Find the difference 112 – 80 = 32
Work out the missing fact 8 x <u>4</u> = 32
Add together 8 x (10 + 4) = 112
8 x 14 = 112

114 ÷ 6 =
Inverse Equation 6 x ? = 114
Multiply the 10s 6 x <u>10</u> = 60
Find the difference 114 – 60 = 54
Work out the missing fact 6 x <u>9</u> = 54
Add together 6 x <u>19</u> = 114
114 ÷ 6 = 19

ⓖ *Finding a fraction of a number where the numerator is not one*

Find ¾ of 84
Divide by denominator 84 x ¼ = 84 ÷ 4
Split number and divide 80 ÷ 4 = <u>20</u>
4 ÷ 4 = <u>1</u>
Add together <u>20</u> + <u>1</u> = 21
Multiply by the numerator 21 x 3 = 63
¾ of 84 = 63

111 x ⅔ = ?
Divide by denominator 111 x ⅓ = 111 ÷ 3
Split number and divide 90 ÷ 3 = <u>30</u>
21 ÷ 3 = <u>7</u>
Add together <u>30</u> + <u>7</u> = 37
Multiply by the numerator 37 x 2 = 74
111 x ⅔ = 74

Jake Wills and Olivia Walker-Wills – 2019