MULTIPLICATIVE THINKING – SET 5

Ⓐ *Knows 1,2,3,4,5 and 10s times tables*

(And learning all multiplication and division facts)

2 x 7 = 14
3 x 4 = 12
5 x 8 = 40

6 x 10 = 60
9 x 3 = 27
12 x 1 = 12

Ⓑ *Uses place value to solve multiplication problems*

5 x 4 = 20
5 x 40 = 200

17 x 10 = 170

6 x 3 = 18
60 x 3 = 180

10 x 63 = 630

Ⓒ *Uses place value knowledge to solve multiplication problems – single step*

3 x 51 =
Find a known basic fact 3 x 5 = 15
Multiply by 10s 3 x 50 = 150
Add 1 lot of 3 150 + 3 = 153
3 x 51 = 153

19 x 4 =
Find a known basic fact 2 x 4 = 8
Multiply by 10s 20 x 4 = 80
Subtract one lot of 10 80 – 4 = 76
19 x 4 = 76

Ⓓ *Uses multiplication /place value knowledge to solve unknown problems – single step*

50 x ? = 150
Find a known basic fact 5 x 3 = 15
Multiply by 10s **50 x 3 = 150**

? X 6 = 240
Find how many 10s 10 x 24 = 240
Find the multiplication fact ? x 6 = 24
4 x 6 = 24
40 x 6 = 240

Ⓔ *Uses multiplication/ place value knowledge to solve division problems*

60 ÷ 3 =
Inverse into a mult fact 3 x ? = 60
Find a known basic fact 3 x 2 = 6
Multiply by 10s **3 x 20 = 60**
60 ÷ 3 = 20

150 ÷ 50 =
Divide 10s 15 ÷ 5 =
Inverse into a mult fact ? x 5 = 15
Find a known basic fact 3 x 5 = 15
Multiply by 10s 3 x 50 = 150
150 ÷ 50 = 3

Ⓕ *Uses multiplication knowledge to simplify fractions.*

40 out of 120
Write as a fraction 40 / 120
Find common multiple 4 x 10 = 40
12 x 10 = 120
Simplify 4 / 12
Find common multiple 1 x 4 = 4
3 x 4 = 12
Simplify **1/3**

Note: These examples all use multiplication facts to solve, just like the illustrations. However some problems could be solved using division facts which is another way of showing multiplicative thinking.

Jake Wills and Olivia Walker-Wills – 2019