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
18 x 10 = 180
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 mult-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 mult - 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.

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