KNOWLEDGE ORGANISER: Maths- Multiplication and Division Year 4 Block 2

Key Vocabulary

Multiply

Groups of

Lots of

Times

Divide

Share

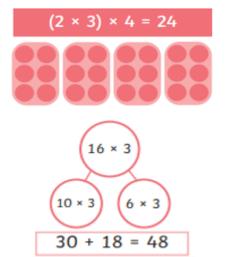Remainder

Factor

Multiple

Product

Mental Calculations for Solving Problems

$(2 \times 3) \times 4 = 24$

16×3

10×3 6×3

$30 + 18 = 48$

Factor pairs and Commutativity

20

1   2   4   5   10   20

The factors of 20 are 1, 2, 4, 5, 10 and 20.

The factor pairs are:

| 1 and 20 | 2 and 10 | 4 and 5 |

$5 \times 4 = 20$ $4 \times 5 = 20$

Short Division with Exact Answers

$576 \div 4 = 144$

Hundreds	Tens	Ones
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1

There are 69 tennis balls packed in tubes of 3.

576

$400 \div 4 = 100$ $160 \div 4 = 40$ $16 \div 4 = 4$

$$3 \overline{) 69} \quad 23$$

$69 \div 3 = 23$

69		
23	23	23

Multiply Using Informal and Formal Methods

| $10 \times 3 = 30$ | $10 \times 3 = 30$ | $4 \times 3 = 12$ | $24 \times 3 = 60 + 12 = 72$ |

Tens	Ones

24

20   4

$\downarrow \times 3$ $\downarrow \times 3$

60   12

Th	H	T	O
	5	4	3
×			4
2	1	7	2
		1	1

Correspondence Problems

Hat	Scarf	Gloves
2	4	3

Number of different combinations is:

$2 \times 4 \times 3 = 24$