Parent Calculation Workshop

Avonwood Primary School
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Key vocabulary

Factors

Factor pairs

Multiples

Exchange

Remainder

Product

Divisor

Difference

How to support with manipulatives

$6,210 \div 10 =$

$3,234 + 2,512 =$

Times table test

Keep up with the times table rock stars – garage

Even if your child knows the times tables – it helps them get used to the format of the government test so reduces the worries

Small groups in June

Relaxed environment

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Factors and factor pairs

Factor pairs of 1 6:

Factors

A factor of a number is a whole number that can be multiplied by another whole number to produce the original number.

What are the factors of 9?

What are the factors of 12?

What are the factors of 25?

Factor Pairs

What are the factor pairs of 20?

A factor pair consists of two numbers that, when multiplied together, equal a given number.

What are the factor pairs of 15?

What are the factor pairs of 21?

Long multiplication

$$35 \times 21 =$$

Multiplication - teacher model:

```
    2 1 3
  x     6
  ‾‾‾‾‾‾‾
```

```
    1 4 2
  x     4
  ‾‾‾‾‾‾‾
```

Multiplication - your turn

```
    1 2 1
  x     5
  _____
```

```
    3 5 1
  x     3
  _____
```

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Short multiplication

$$\begin{array}{r} 2\ 5\ 1\ . \\ \times\ 4 \\ \hline \end{array}$$

Multiplication - teacher model

```
    2 5
x     2
───────
```

```
  2 0 1
x     3
───────
```

Multiplication - your turn

```
    3  1  2
x         2
─────────────
```

```
    4  0  3
x         3
─────────────
```

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Short division

$$413 \div 2 =$$

Short Division - teacher model

2	5	1	÷	3	=

2	0	1	÷	4

Short division - your turn:

$$136 \div 5 =$$

$$209 \div 6 =$$

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Addition – formal method

Th	H	T	O
6	5	1	2
1	5	9	3

Addition – teacher model

```
  1 2 5 1
+ 3 0 9 8
─────────
```

```
  2 1 2 3
+ 2 2 1 1
─────────
```

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Addition – your turn

```
    4  3  1  4
 +  2  1  0  5
 _____
```

```
    3  0  1  2
 +  4  4  1  1
 _____
```

Subtraction – formal method

Subtraction – teacher model

```
    5  3  2  1
 -  1  0  5  2
 _____
```

```
    2  1  0  4
 -     9  8  9
 _____
```

Subtraction – your turn

```
    2 4 2 1
 -  1 1 4 2
 _____
```

```
    2 0 0 4
 -    3 0 0
 _____
```

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Representations – Bar Model/Part-Part Whole

8	
3	5

$3 + 5 = 8$

$5 + 3 = 8$
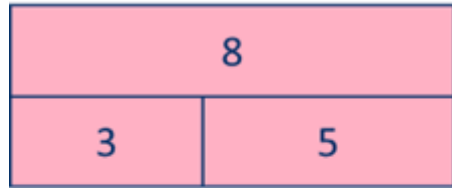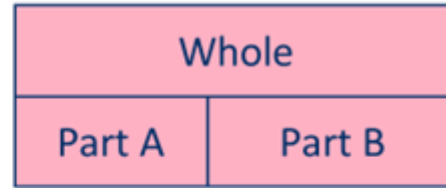
Whole	
Part A	Part B

Part A + Part B = Whole
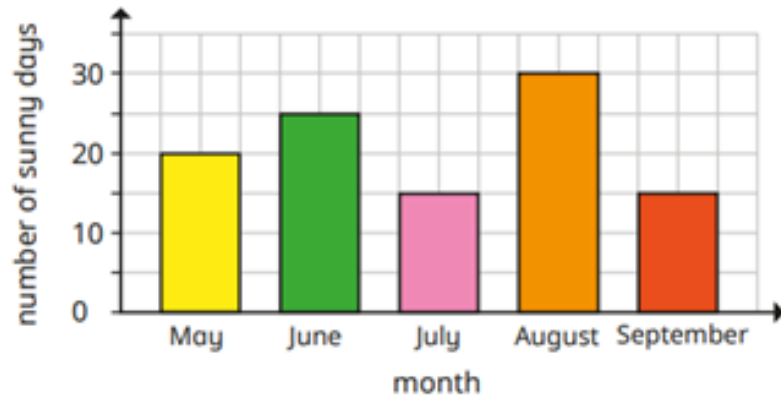
Part B + Part A = Whole

The part-whole model
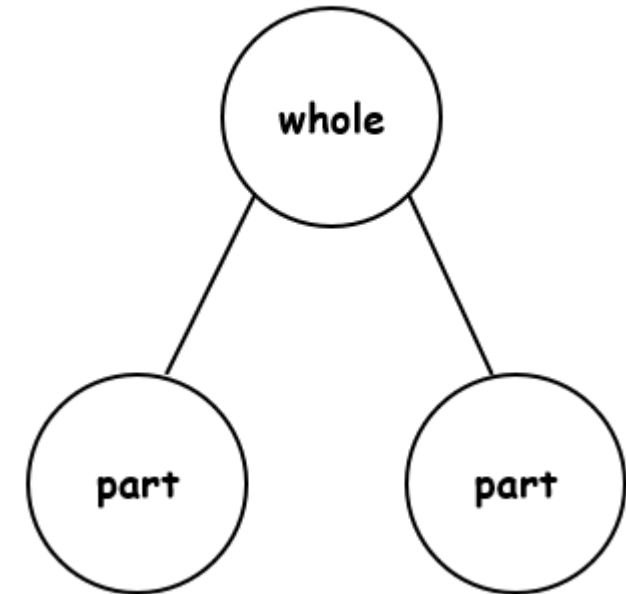
Statistics

The bar chart shows the number of sunny days between May and September.

The tally chart and the pictogram both show the same thing.

Pencils		Colours	
Red	卌 卌 卌 卌	Red	■ ■ ■ ■
Blue	卌 卌	Blue	■ ■
Green	卌 卌 卌 卌	Green	■ ■ ■ ■
Brown	卌 卌 卌	Brown	■ ■ ■

■ = 10 pencils