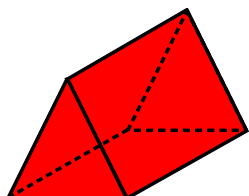
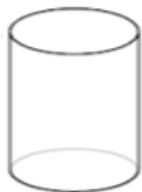


SHAPE NAMES AND FACTS

Name the shapes:



ORDERING NUMBERS (DECIMALS & NEGATIVES)

Put these in ascending order:

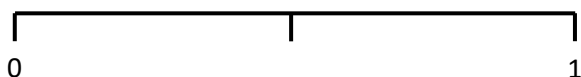
a) -20 15 -16 -4 -8 9

b) 13.21 14.091 13.321 14.03 13.01

LISTING OUTCOMES/ PROBABILITY

Put letters on the number line to represent the probability of each event below.

- A - The next baby born in England will be a boy.
- B - You will win the lottery on Saturday.
- C - It will snow in March in Yorkshire.



ROUNDING AND ESTIMATION

Round these numbers to degree given.

a) 345 (nearest 100)

b) 345 (1 significant figure)

c) 43.25 (1 decimal place)

FACTORS/MULTIPLES AND NUMBER PROPERTIES

a) Write down the first 5 square numbers:

b) Write down the first 5 prime numbers:

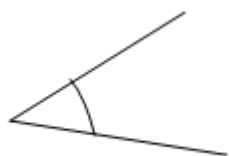
CALCULATOR METHOD

Using a calculator, work out:

$$3^2 + 4^2 - 2^2$$

BASIC ANGLE FACTS

Measure these angles.



SPOTTING PATTERNS/SEQUENCES

For the sequences below find the next two terms:

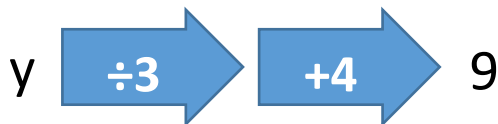
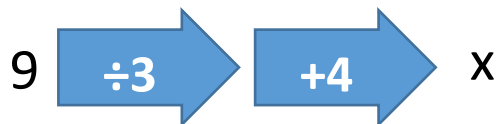
a) 7, 12, 17, 22, 27, ____, ____

b) 10, 7, 4, 1, -2, ____, ____

c) 1, 2, 4, 8, 16, ____, ____

FUNCTION MACHINES

Find x and y

**METRIC CONVERSIONS**

Convert the following measures.

- a) 3 litres = _____ millilitres
- b) 5000 millilitres = _____ litres
- c) 7500 millilitres = _____ litres

SUBSTITUTIONGiven $a = -5$, $b = 5$ and $c = 9$

Work out:

- a) $5c$
- b) $2b + 2c$
- c) b^2

RATIO (SIMPLIFY AND RECIPES)

Pork and Leek Casserole
Serves 6 people

600g pork
2 onions
3 leeks
50g margarine
120g flour

How much flour do you need for:

- a) 12 people
- b) 2 people
- c) 4 people

BIDMAS

- 1) $3 + 4 \times 10$
- 2) $(3 + 4) \times 10$
- 3) $5 + 2 \times 3 + 1$

FOUR RULES

Work out:

- a) 24×3
- b) 35×48

COLLECT LIKE TERMS/MULTIPLY TERMS

Simplify

- a) $2x \times 9$
- b) $3y \times 2y$
- c) $8x \times 2y$

PERCENTAGES

- a) Work out 10% of 450
- b) Increase 450 by 10%
- c) Decrease 450 by 10%

PICTOGRAMS

The chart shows information about the number of plates sold in a shop each day in a particular week.

Monday	○ ○
Tuesday	○ ◐
Wednesday	○ ○ ○
Thursday	○
Friday	
Saturday	

Key: ○ represents 10 plates

- Find the number of plates sold on Monday.
- Find the number of plates sold on Tuesday.

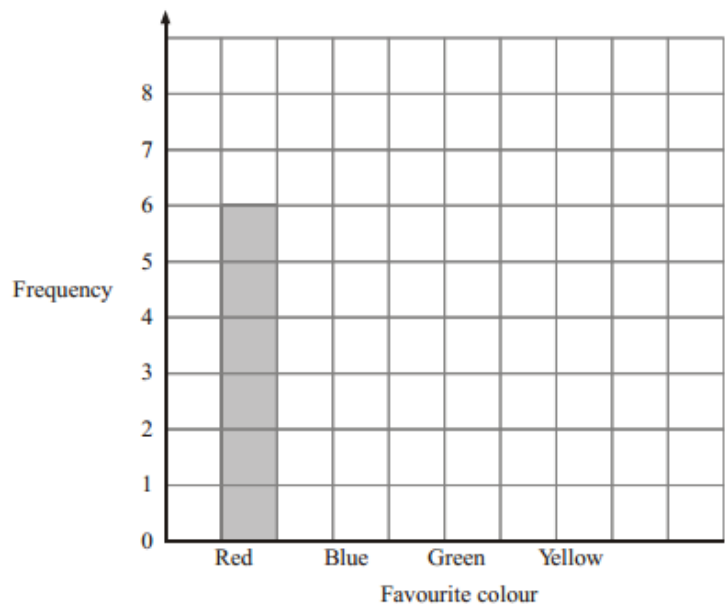
There were 40 plates sold on Friday.
There were 25 plates sold on Saturday.

- Complete the pictogram for Friday and Saturday.

BAR CHARTS

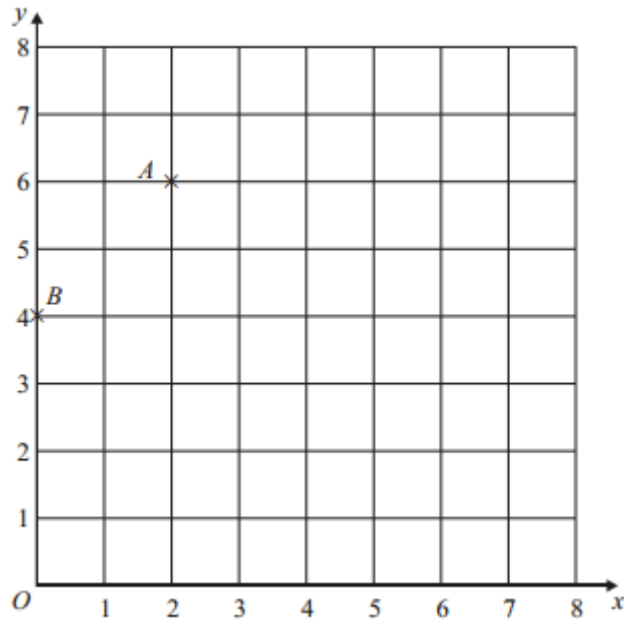
The table shows the favourite colour of pupils in a class.

Favourite colour	Tally	Frequency
Red		6
Blue		8
Green		5
Yellow		3



- Complete the bar chart.
- What was the favourite colour?

COORDINATES/ LINEAR GRAPHS



- Write down the coordinates of point A.
- Write down the coordinates of point B.
- On the grid plot the point $(6, 4)$, label it P.
- On the grid plot the point $(3, 0)$, label it Q.

TRANSFORMATIONS

- Reflect the shape A in the y-axis, label it shape B.
- Translate shape A in the vector $\begin{pmatrix} -1 \\ -6 \end{pmatrix}$, label it C.
- Rotate the shape 180 degrees clockwise about the centre $(0, 0)$, label it D.

