SHAPE NAMES AND FACTS

Name the shapes:

ORDERING NUMBERS (DECIMALS & NEGATIVES)

Put these in ascending order:

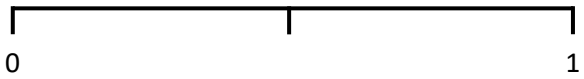
a) 1.5 1.52 -1.3 -0.5 0.3 -0.36

b) 150.56 157 162.09 159.1

LISTING OUTCOMES/ PROBABILITY

A fair dice numbered 1 to 6 is rolled, put letters on the probability line to show the probabilities below.

A – The number rolled will be even.
B – The number rolled will be less than 7.
C – The number rolled will be a 10.
D – The number rolled will be a 6.



ROUNDING AND ESTIMATION

Round these numbers to degree given.

a) 12450 (nearest 1000)

b) 45.98 (nearest whole number)

c) 2.345 (nearest 1dp)

FACTORS/MULTIPLES AND NUMBER PROPERTIES

a) Write the first 5 multiples of 6:

____, ____, ____, ____, ____

b) Write the first 5 multiples of 9:

____, ____, ____, ____, ____

c) Hence work out the lowest common multiple of 6 and 9.

CALCULATOR METHOD

Using a calculator, work out:

$$\frac{9.1^2}{3.5 + 2.1}$$

a) Write down all the digits on the display of your calculator.

b) Write your answer down to 1dp.

BASIC ANGLE FACTS

Find the missing angles.

SPOTTING PATTERNS/SEQUENCES

9, 13, 17, 21, 25

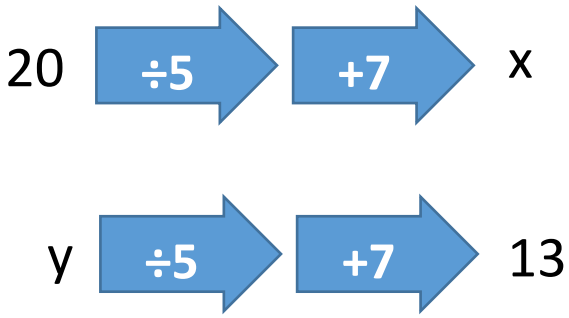
a) Describe the rule for finding the next term in the sequence.

b) Find the next three terms in the sequence.

c) Find the 10th term in the sequence.

FUNCTION MACHINES

Find x and y



METRIC CONVERSIONS

Convert the following measures.

a) 14 cm = _____ mm

b) 280 mm = _____ cm

c) 900 cm = _____ m

SUBSTITUTION

Given:

$$v = u + at$$

Work out the value of v when
u = 10, a = 10 and t = 7.

RATIO (SIMPLIFY AND RECIPES)

Ingredients
to make **16** gingerbread men

180 g	flour
40 g	ginger
110 g	butter
30 g	sugar

How much flour do you need for:

a) 8 gingerbread men
b) 4 gingerbread men
c) 32 gingerbread men

BIDMAS

1) 2 x (11 + 9)

2) 3 x 5 + 4

FOUR RULES

Work out:

a) 85 ÷ 5

b) 144 ÷ 6

COLLECT LIKE TERMS/MULTIPLY TERMS

Simplify

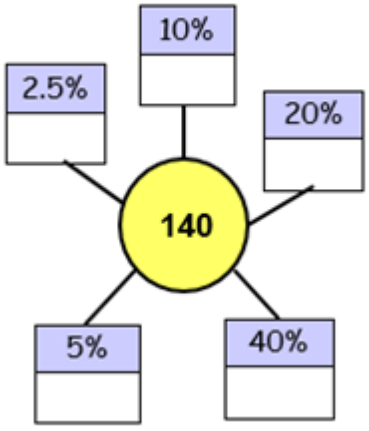
a) 3x + 6x – 2x

b) 5y + 2z + 5y + 3z

c) 3a + 4b + 2a – 2b

PERCENTAGES

Find these percentages of 140.



PICTOGRAMS

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

Wednesday	⊞ ⊞
Thursday	⊞ ◱
Friday	⊞ ⊞ ⊞ □
Saturday	

Key: ⊞ represents 8 books

a) Find the number of books sold on Wednesday.

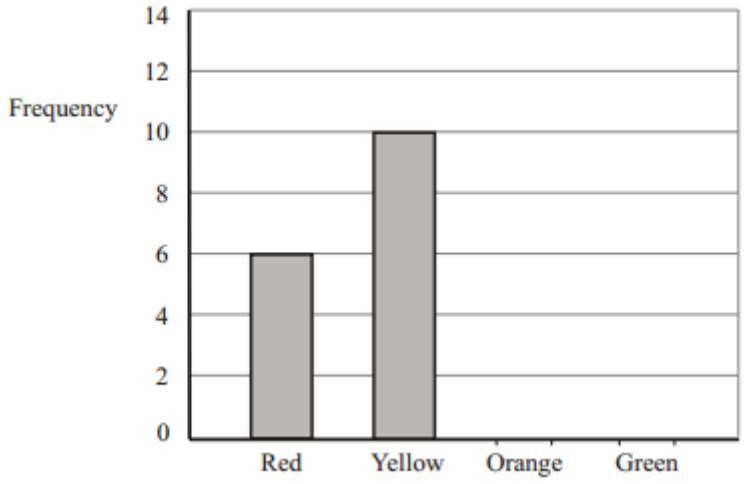
b) Find the number of books sold on Friday.

There were 20 plates sold on Saturday.

c) Complete the pictogram for Saturday.

BAR CHARTS

The graph shows information about the colour of sweets in a bag.



8 sweets were orange.
5 sweets were green.

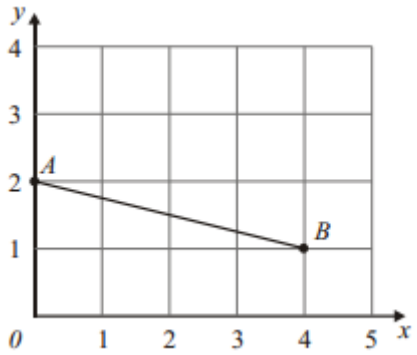
a) Complete the bar chart.

b) How many sweets were red?

c) What was the mode?

d) How many sweets were there in total?

COORDINATES/ LINEAR GRAPHS



a) Write down the coordinates of point A.

b) Write down the coordinates of point B.

c) On the grid mark the midpoint of the line AB with a cross (x).

d) What are the coordinates of the midpoint of the line AB.

TRANSFORMATIONS

Enlarge the shape A, scale factor 2, centre of enlargement (-3, -2).