

**SHAPE NAMES AND FACTS**

Name the shapes:



**ORDERING NUMBERS (DECIMALS & NEGATIVES)**

Put these in ascending order:

a) 7 -2 -9 -1 5

b) 0.25 0.3 0.2 0.045 0.42

**LISTING OUTCOMES/ PROBABILITY**

A menu lists the following choices:

STARTERS – Soup (S), Prawn cocktail (P), Garlic Mushrooms (M) and BBQ ribs (R).

MAINS – Burger (B), Salad (S), Lamb (L), Gammon (G)

List using the letters all the different combinations they could order. The first has been done for you. (S, B)

**ROUNDING AND ESTIMATION**

Round these numbers to the nearest 100.

a) 4536

b) 56443

c) 542

d) 990

**FACTORS/MULTIPLES AND NUMBER PROPERTIES**

List all the factors of these numbers:

a) 14

b) 24

c) 16

**CALCULATOR METHOD**

Using a calculator, work out:

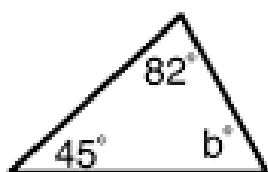
$$\frac{34.24 + 73.2}{2.1 \times 5.91}$$

a) Write out all the digits on your calculator display.

b) Give your answer to 1 decimal place.

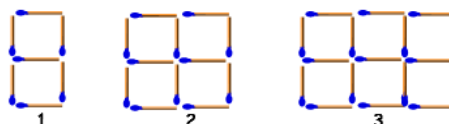
**BASIC ANGLE FACTS**

Find the size of the angles labelled with letters.



**SPOTTING PATTERNS/SEQUENCES**

For the pattern:



a) Draw the next pattern in the sequence.

b) How many matches would be in the 10<sup>th</sup> pattern?

**FUNCTION MACHINES**Find  $y$  and  $z$ 

$$3 \xrightarrow{\times 4} \xrightarrow{+2} y$$

$$z \xrightarrow{\times 4} \xrightarrow{+2} 22$$

**METRIC CONVERSIONS**

Convert the following measures.

a)  $5\text{cm} = \underline{\hspace{2cm}} \text{mm}$

b)  $45\text{cm} = \underline{\hspace{2cm}} \text{mm}$

c)  $200\text{cm} = \underline{\hspace{2cm}} \text{m}$

**SUBSTITUTION**Given  $a = 5$ ,  $b = 10$  and  $c = 7$ 

Work out:

a)  $2a$

b)  $3b + c$

c)  $ab$

**RATIO (SIMPLIFY AND RECIPES)**

Simplify the following ratios:

a)  $4 : 6$

b)  $10 : 50$

c)  $70 : 140$

**BIDMAS**

Work out:

a)  $3 + 4 \times 5$

b)  $4 \times 7 - 3 \times 4$

**FOUR RULES (inc by 10/100/1000)**

Work out:

a)  $6 \times 24$

b)  $24 \times 14$

c) Hence work out  $2.4 \times 1.4$

**COLLECT LIKE TERMS/MULTIPLY TERMS**

Simplify

a)  $5x + 2x + x$

b)  $2a + 5b + 2a + 7b$





**PERCENTAGES**


a) Work out 20% of £450

b) Hence, increase £450 by 20%

## PICTOGRAMS

The chart shows information about how people spent their time on a flight.

Reading	
Watching films	
Listening to music	
Playing games	
Other	

Key:  represents 40 people

- How many people spent their time playing games?
- How many more people spent their time watching films than reading?
- There were 300 passengers in total, complete the pictogram for listening to music.

## BAR CHARTS

Pupils in a particular year group were asked what their favourite sport was.

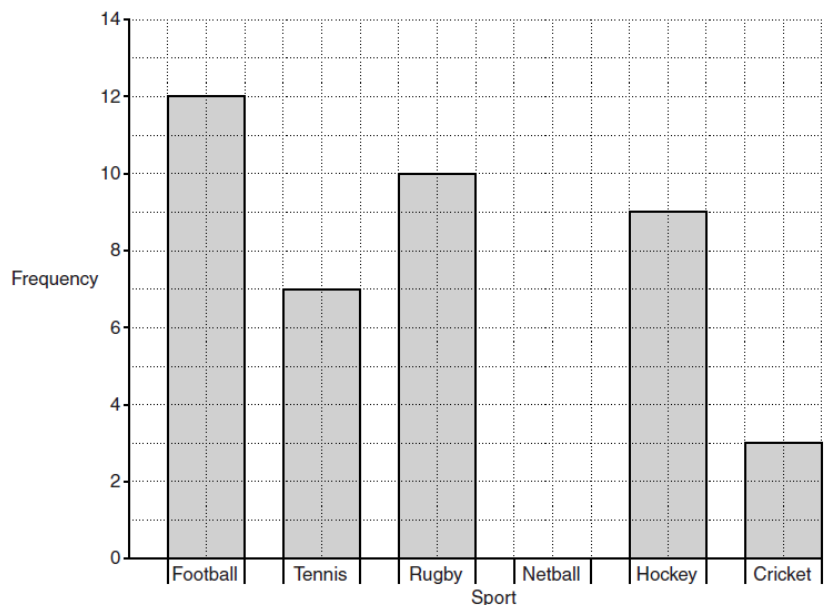
- 5 pupils chose netball, complete the bar chart.

- Complete these sentences:

\_\_\_\_\_ is the most popular sport.

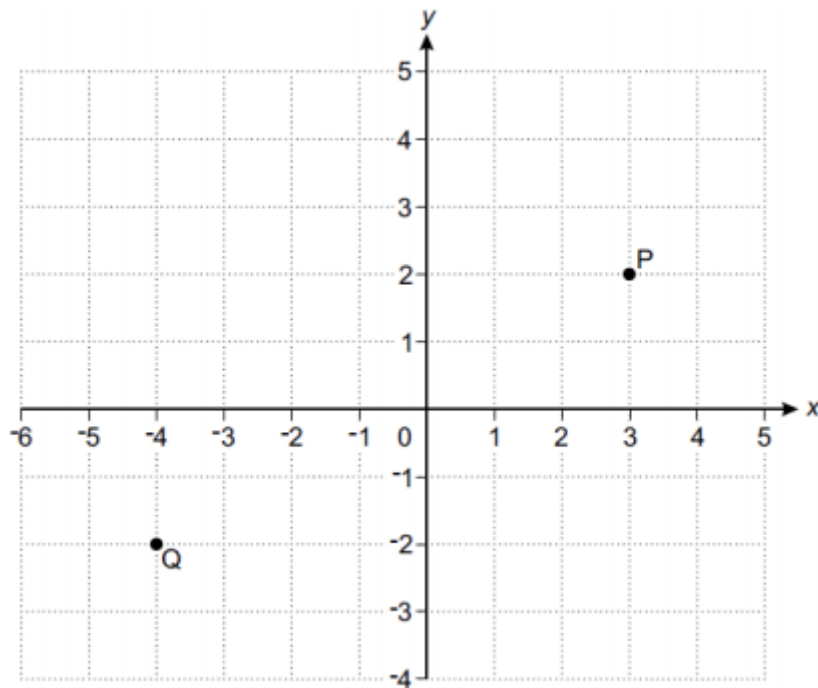
\_\_\_\_\_ pupils chose rugby.

\_\_\_\_\_ **more** pupils chose hockey than tennis.



- How many pupils are in the year altogether?

## COORDINATES/ LINEAR GRAPHS



- Write down the coordinates of point P.
- Write down the coordinates of point Q.
- Plot the point R at (-2, 0).

## TRANSFORMATIONS

- Reflect shape A in the y-axis and label it B.
- Reflect A in the x axis and label it C.

