



HEREFORD CATHEDRAL SCHOOL

11+ Entrance Paper

Sample Material

Time Allowed

One Hour

Name:.....

School:.....

Answer all the questions.

Equipment required

Pencil

Ruler

Protractor

Calculators are not allowed

Advice to candidates

Show all your working; do not rub it out.

Do not spend too long on any one question. You may return to complete a question later if you have time.

1) Add together 324 and 132

2) A piece of wood 52cm long is cut into **two pieces of equal length**. How long is each piece?

												cm

3) Divide 372 by 3

4) Subtract 189 from 748

5) 130mm = cm

6) Write ten thousand and thirty-four using digits _____

7) Calculate 60×20

8) One pen costs 89p.

a) How much would it cost to buy **8** pens?

							£		

b) What change do I get from a £10 note?

										£		

9) A pencil is **10cm** long. After it is sharpened, it is **4mm shorter**.

What is its length now in cm?

												cm
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10) What is a quarter of £21.40?

£												
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11) Calculate 9678×8

12) Divide 9744 by 7

13) Circle the most sensible answer:

a) The length of a car is 5m 1000kg 20m 100cm

b) The weight of an apple is 100g 10g 4m 3kg

14) Write these decimals in order, with the smallest value first.

0.04

0.4

0.2

0.321

0.091

smallest

largest

15) One quarter of the pupils in a class are left-handed. If there are 20 pupils in the class. How many are **not** left-handed?

16) 560 pupils normally go to Hereford Cathedral on Monday mornings. On

Monday, $\frac{1}{5}$ of the pupils are away on a school trip. How many pupils **go to the**

Cathedral?

17) Write down the next two numbers in these sequences.

a) 7, 10, 13, 16, 19, 22, ,

b) 2, 5, 10, 17, 26, ,

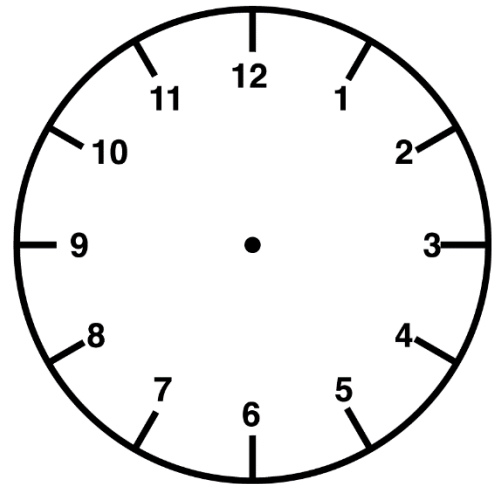
18) What angle does the hour hand of a clock turn through from

a) 3 o'clock to 6 o'clock

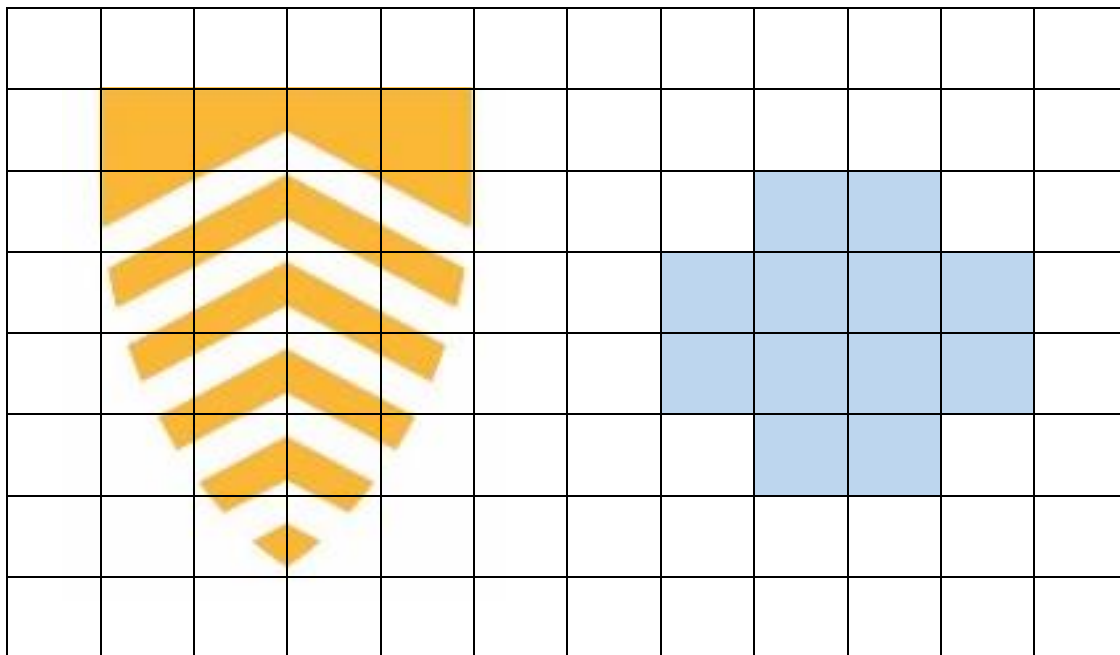
b) 6pm to 10pm

c) 16:00 to 18:00

d) 1pm to 10pm



19) Draw any lines of symmetry on the shapes.



20) Look at the picture of the flag of the Isle of Mann?

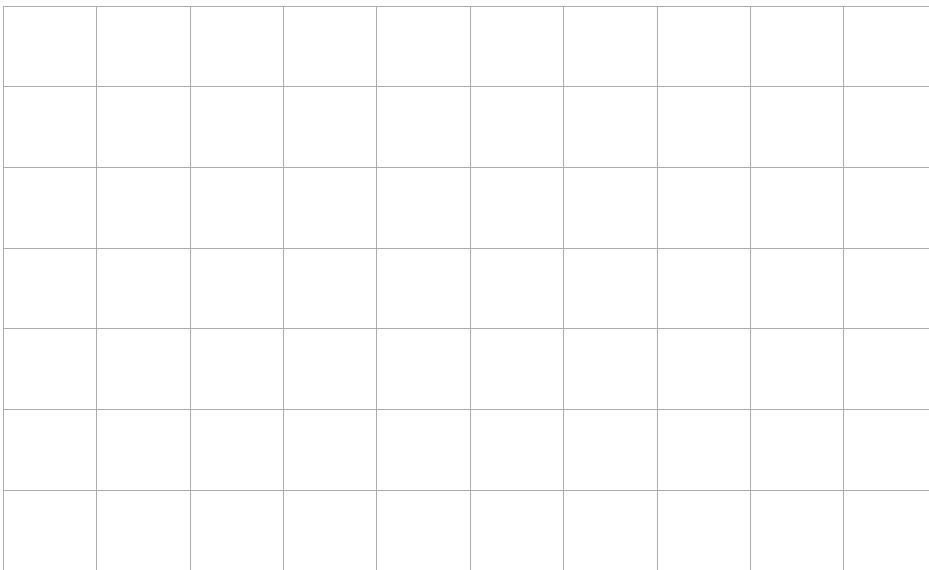


a) Does it have line symmetry?

b) Does it have rotational symmetry?

21) Draw a diagram of a rectangle that has area 24cm^2 and perimeter 22cm .

Label the length of each side. It does not have to be drawn to scale.



22a) Plot the points

$(2,1)$ $(4,1)$ $(5,7)$ $(3,7)$

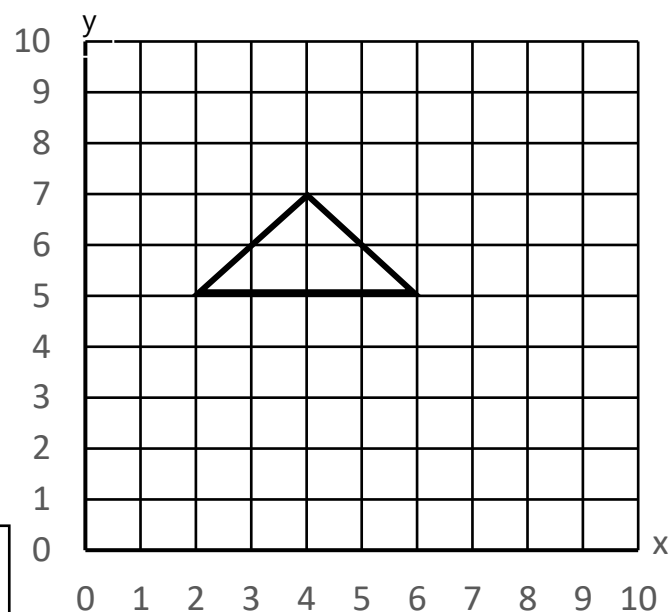
b) Join the points to form a quadrilateral.

c) What is the name of this shape?

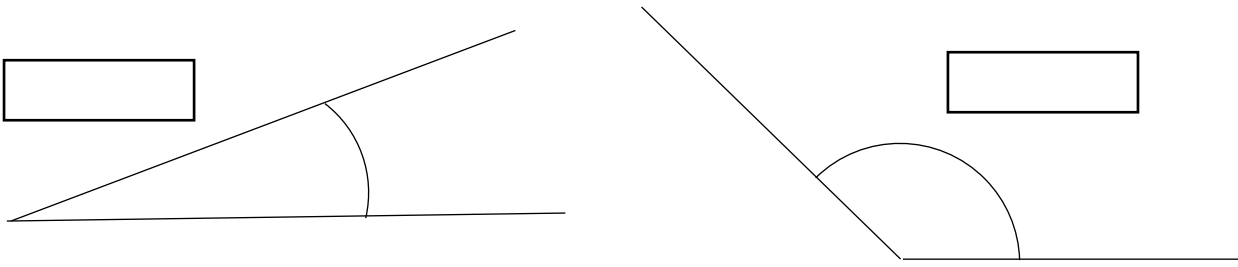
d) Write down the coordinate of the vertices

of the triangle. $(\quad , \quad) (\quad , \quad) (\quad , \quad)$

e) What type of triangle is this?



23a) Use a protractor to measure these angles



b) Tick the obtuse angle

24) Five pupils took a maths test. Here are their results:

27, 28, 26, 24, 20 Calculate the mean mark

25) The shoe sizes of 20 pupils in a class were as follows:

1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4

a) Complete the frequency table.

Shoe size	Tally	Frequency

b) What was the range of the shoe sizes?

26) Choose the best word from the box below to complete the sentence:

Impossible	unlikely	likely	certain
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I roll three normal six-sided dice. It is _____ that the total is 18?

27a) $2.7\text{km} + 652\text{m}$

b) $6.8\text{cm} + 45.2\text{mm}$

28) Calculate 87×23

29) Calculate $675 \div 25$

30) Calculate $\frac{3}{8} + \frac{1}{6}$

31) Calculate $6\frac{1}{2} - 4\frac{1}{2}$

32) Calculate $0.23 + 1.9 + 0.083$
