

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Answer ALL TWENTY THREE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** The table gives information about the amount of crude oil, in barrels, produced per day by each of six countries in 2015

Country	Crude oil produced per day (number of barrels)
Australia	322 300
Congo	269 000
Gabon	213 300
South Sudan	220 000
Thailand	248 200
Vietnam	333 400

- (a) Write down the name of the country that produced the least number of barrels of crude oil.

.....
(1)

- (b) Work out the difference between the number of barrels of crude oil produced by Vietnam and the number of barrels of crude oil produced by Australia.

..... barrels
(1)

Thailand produced 248 200 barrels of crude oil.

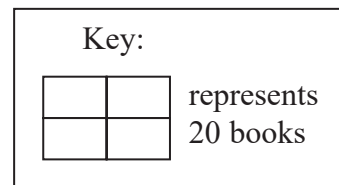
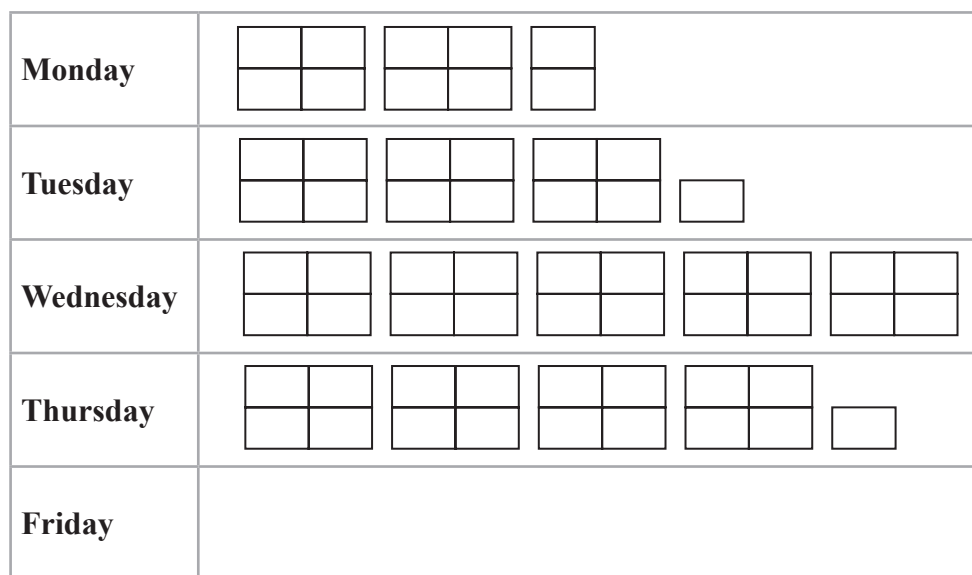
- (c) Write 248 200 correct to the nearest thousand.

.....
(1)

(Total for Question 1 is 3 marks)



2 The pictogram shows information about the number of books sold in a shop each day from Monday to Thursday last week.



(a) How many books were sold on Wednesday last week?

.....
(1)

35 books were sold in the shop on Friday last week.

(b) Show this information on the pictogram.

(1)

Last week

- some books were sold in the shop on Saturday
- no books were sold in the shop on Sunday
- a total of 500 books were sold in the shop.

(c) Work out the number of books that were sold in the shop on Saturday last week.

.....
(3)

(Total for Question 2 is 5 marks)

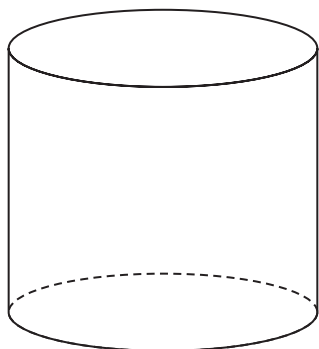


DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

3 (a) Write down the mathematical name of this 3-D shape.



.....
(1)

Here is a solid cuboid.

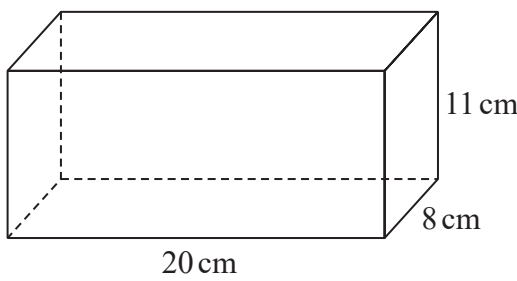


Diagram NOT accurately drawn

(b) (i) How many faces has the cuboid?

.....

(ii) How many vertices has the cuboid?

.....
(2)

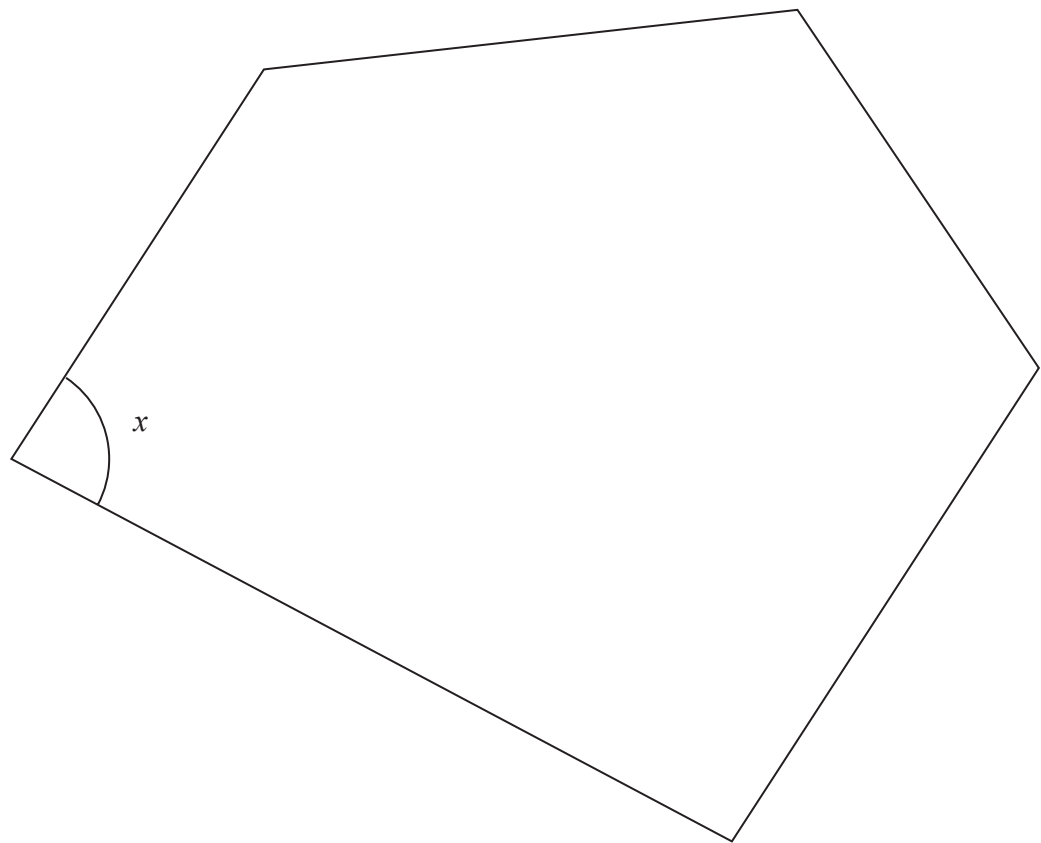
(c) Work out the volume of the cuboid.

..... cm³
(2)

(Total for Question 3 is 5 marks)



4 Here is a polygon with five sides.



(a) Write down the mathematical name of a polygon with five sides.

.....
(1)

(b) Measure the size of the angle marked x .

.....
(1)

Two sides of the polygon are parallel.

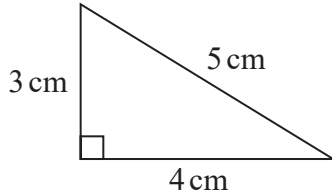
(c) On the polygon, mark with arrows (\gg) this pair of parallel lines.

(1)

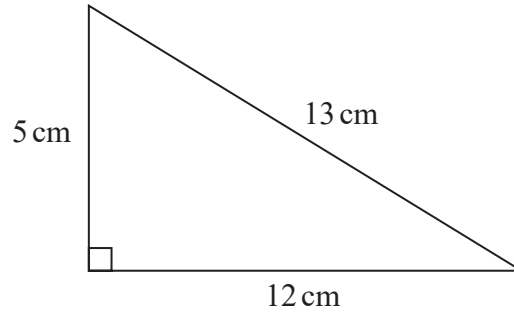


Here are two triangles.

Diagram **NOT**
accurately drawn



Triangle A



Triangle B

- (d) Are triangle **A** and triangle **B** similar triangles?
You must give a reason for your answer.

(1)

(Total for Question 4 is 4 marks)

- 5 Matt buys a notebook and some pencils.

The notebook costs \$2.35

Each pencil costs \$0.74

Matt has a total of \$20 to spend on the notebook and the pencils.
He buys the greatest number of pencils that he can.

Work out how many pencils he buys.

(Total for Question 5 is 3 marks)



6 (a) Write $\frac{24}{40}$ as a fraction in its simplest form.

.....
(2)

(b) Write $\frac{1}{5}$ as a decimal.

.....
(1)

There are only blue bricks and white bricks in a box.

The ratio of the number of blue bricks to the number of white bricks is 3 : 7

(c) What fraction of the bricks in the box are blue bricks?

.....
(1)

(d) Show that $\frac{3}{8} + \frac{1}{24} = \frac{5}{12}$

.....
(2)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

There are 280 counters in a bag.

$\frac{1}{2}$ of the counters are red.

$\frac{2}{5}$ of the counters are yellow.

The rest of the counters are green.

(e) Work out the number of green counters in the bag.

.....
(3)

(Total for Question 6 is 9 marks)



7 (a) Simplify $5c \times d$

.....
(1)

(b) Solve $x + 5 = 12$

$x =$
(1)

(c) Solve $9y = 36$

$y =$
(1)

(d) Simplify $8k + 5m - 2k + 6m$

.....
(2)

(e) Expand $4(3g + 1)$

.....
(1)

(Total for Question 7 is 6 marks)

