

Information

- ● The total mark for this paper is 100. The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.

Advice

- ● Read each question carefully before you start to answer it. Check your answers if you have time at the end.

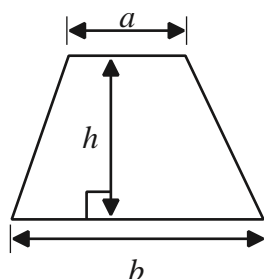
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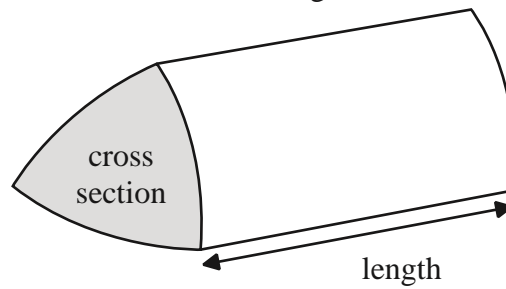
International GCSE Mathematics

Formulae sheet – Foundation Tier

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

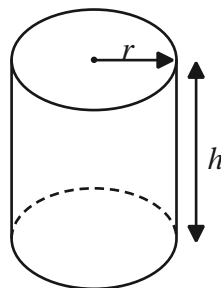


Volume of prism = area of cross section \times length



Volume of cylinder = $\pi r^2 h$

Curved surface area of cylinder = $2\pi r h$



P62650A0228

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
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(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.

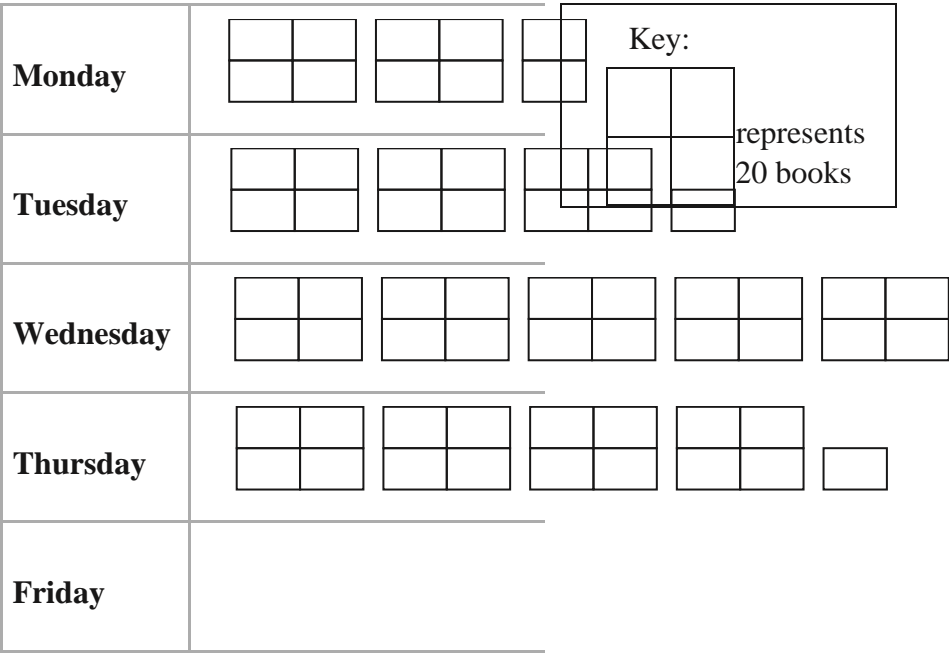
(c) Write 248 200 correct to the nearest thousand.

.....
(1)

(Total for Question 1 is 3 marks)

P62650A0328

- 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.

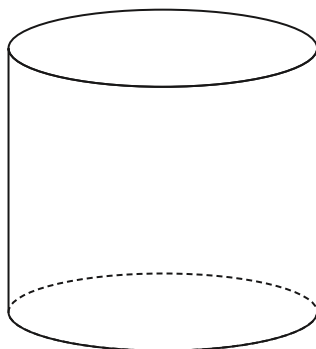
(c) Work out the number of books that were sold in the shop on Saturday last week.

(3)

(Total for Question 2 is 5 marks)

P62650A0428

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



.....
(1)

Here is a solid cuboid.

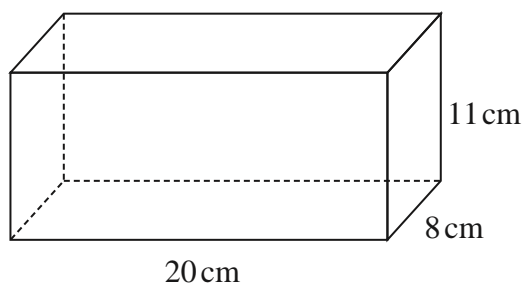


Diagram **NOT**
accurately drawn

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

- (ii) How many vertices has the cuboid?

.....
(2)

- (c) Work out the volume of the cuboid.

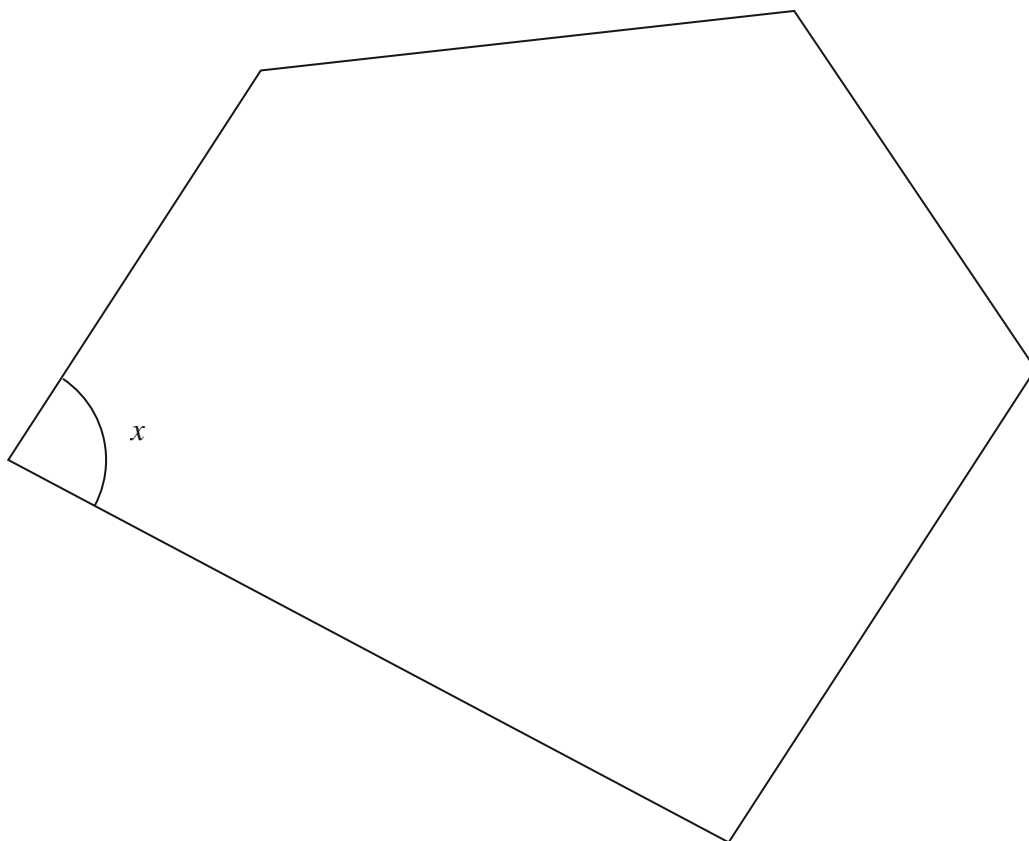
.....
(2)

cm^3

(Total for Question 3 is 5 marks)

P62650A0528

- 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)

P62650A0628

Here are two triangles.

Diagram **NOT**
accurately drawn

Turn over

P62650A0728

- 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 $\frac{3}{8} + \frac{1}{24} = \frac{5}{12}$

P62650A0828

There are 280 counters in a bag.

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

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

P62650A0928

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

P62650A01028

- 8 Pavel asked 60 people at an airport where they came from.
All of the 60 people came from Europe or Africa or Asia.

9 people came from Africa.
14 females came from Europe.
3 males came from Africa

P62650A01128

9 $c = 4$
 $d = 7$

(a) Work out the value of $3c + 2d$

P62650A01228

10 (a) Use your calculator to work out the value of $\frac{67.8 + 46^2}{\sqrt{56}}$

Write down all the figures on your calculator display.

P62650A01328

- 11** A circle has radius 18 cm.

Work out the circumference of the circle.
Give your answer correct to 3 significant figures.

P62650A01428

12 Gavin bought 3 pairs of jeans in the USA.

He paid a **total** of \$72

Gavin sold the 3 pairs of jeans in England.

He sold each pair of jeans for £34.50

£1 = \$1.34

Work out Gavin's percentage profit.

Give your answer correct to the nearest whole number.

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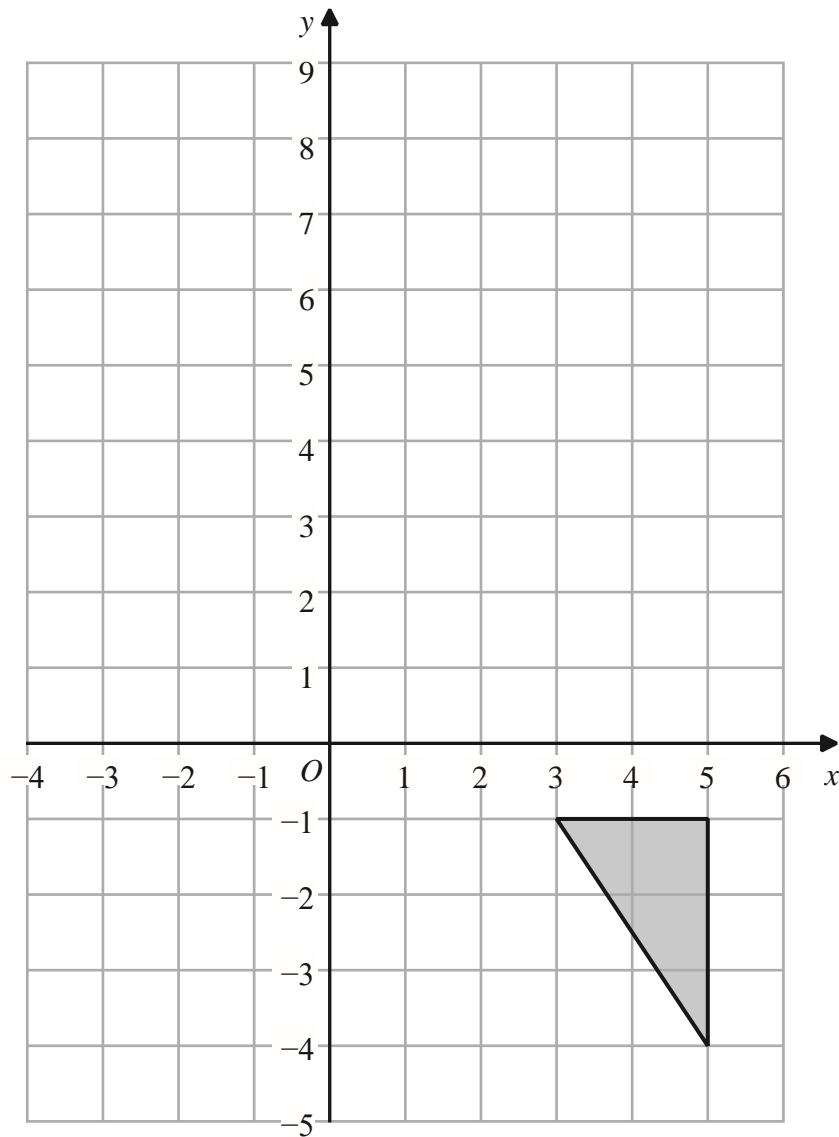
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.....%

(Total for Question 12 is 4 marks)

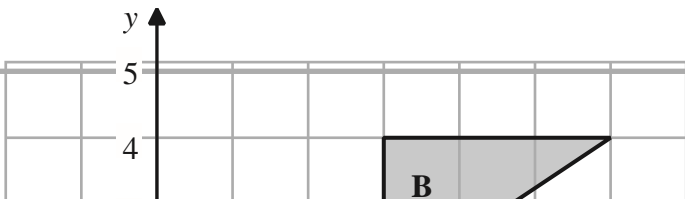
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13

(a) On the grid, reflect the shaded triangle in the line with equation $y = 2$

(2)

P62650A01628



P62650A01728

14 The numbers from 1 to 14 are shown in the Venn diagram.

E



9

P62650A01828

- 15** Toy cars are made in a factory.
The toy cars are made for 15 hours each day.
5 toy cars are made every 12 seconds.

For the toy cars made each day, the probability of a toy car being faulty is 0.002

P62650A01928

16 On the grid, draw the graph of $y = 7 - 4x$ for values of x from -2 to 3

P62650A02028

17 Here is a list of six numbers written in order of size.

4 7 x 10 y y

The numbers have

P62650A02128

18 (a) Write 5.7×10^{-3} as an ordinary number.

P62650A02228

20 (a) Solve $5(4 - x) = 7 - 3x$
Show clear algebraic working.

$x =$
(3)

(b) Factorise fully $16m^3g^3 + 24m^2g^5$

.....
(2)

(c) (i) Factorise $y^2 - 2y - 48$

.....
(2)

(ii) Hence, solve $y^2 - 2y - 48 = 0$

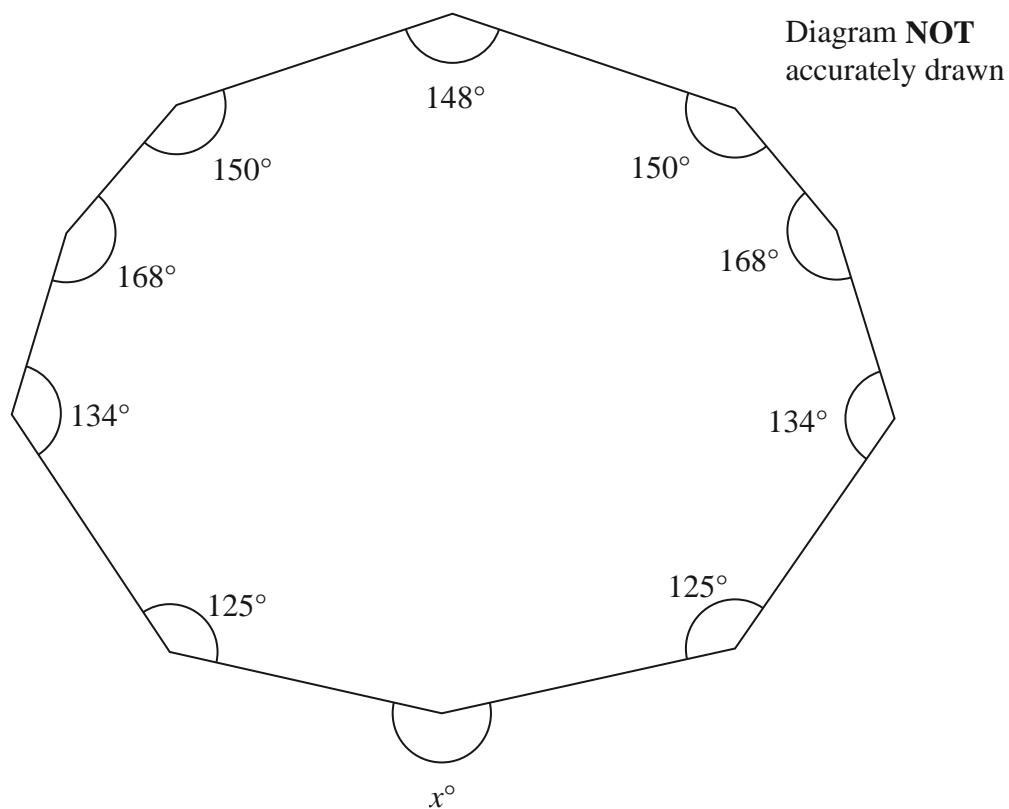
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(1)

(Total for Question 20 is 8 marks)

P62650A02328

21 Here is a 10-sided polygon.



Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 21 is 4 marks)

P62650A02428

22 In a sale, normal prices are reduced by 20%

A bag costs 1080 rupees in the sale.

Work out the normal price of the bag.

..... rupees

(Total for Question 22 is 3 marks)

P62650A02528

23 $A = 2 \times 3^{43}$
 $B = 16 \times 3^{37}$

(a) Find the highest common factor (HCF) of A and B .

.....
 (1)

(b) Express the number $A \times B$ as a product of powers of its prime factors.
 Give your answer in its simplest form.

.....
 (2)

.....
 (Total for Question 23 is 3 marks)

TOTAL FOR PAPER IS 100 MARKS

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