Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Pearson Edexcel International GCSE

Wednesday 4 June 2025

Morning (Time: 2 hours)

Paper reference **4MA1/2FR**

Mathematics A

PAPER 2FR
Foundation Tier

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- **Calculators may be used.**
- You must **NOT** write anything on the formulae page.
- Anything you write on the formulae page will gain NO credit.

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.

Turn over ▶

P75661A

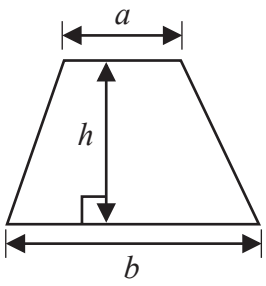
P 7 5 6 6 1 A 0 1 2 4

Pearson

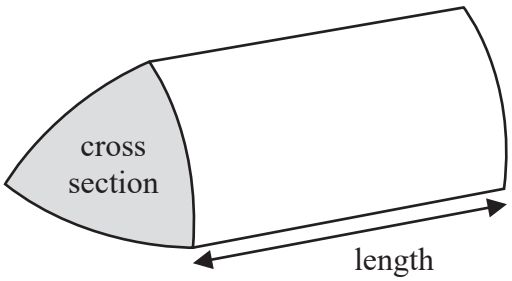
International GCSE Mathematics

Formulae sheet – Foundation Tier

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

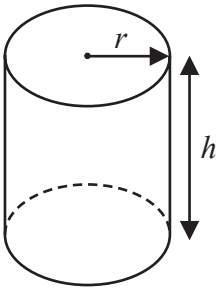


Volume of prism = area of cross section × length



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

Curved surface area of cylinder = $2\pi rh$



Answer ALL TWENTY SEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 (a) Write these numbers in order of size.
Start with the smallest number.

83 148 46 229 99

.....

(1)

(b) Write these decimals in order of size.
Start with the smallest decimal.

0.25 0.5 0.46 0.08 0.417

.....

(1)

(c) Write 0.81 as a fraction.

.....

(1)

(d) Find the number that is exactly halfway between 0.2 and 0.3

.....

(1)

(Total for Question 1 is 4 marks)

2 Helena recorded the shoe sizes of seven of her friends.

Here are the results.

2 9 10 6 7 9 4

(a) Write down the mode of the shoe sizes.

.....

(1)

(b) Work out the median shoe size.

.....

(2)

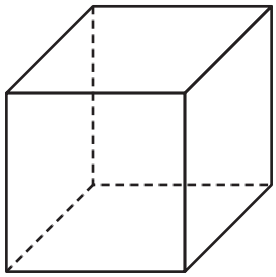
(c) Find the range of the shoe sizes.

.....

(1)

(Total for Question 2 is 4 marks)

3 Here is a 3-D shape.



(a) (i) Write down the mathematical name of this shape.

.....

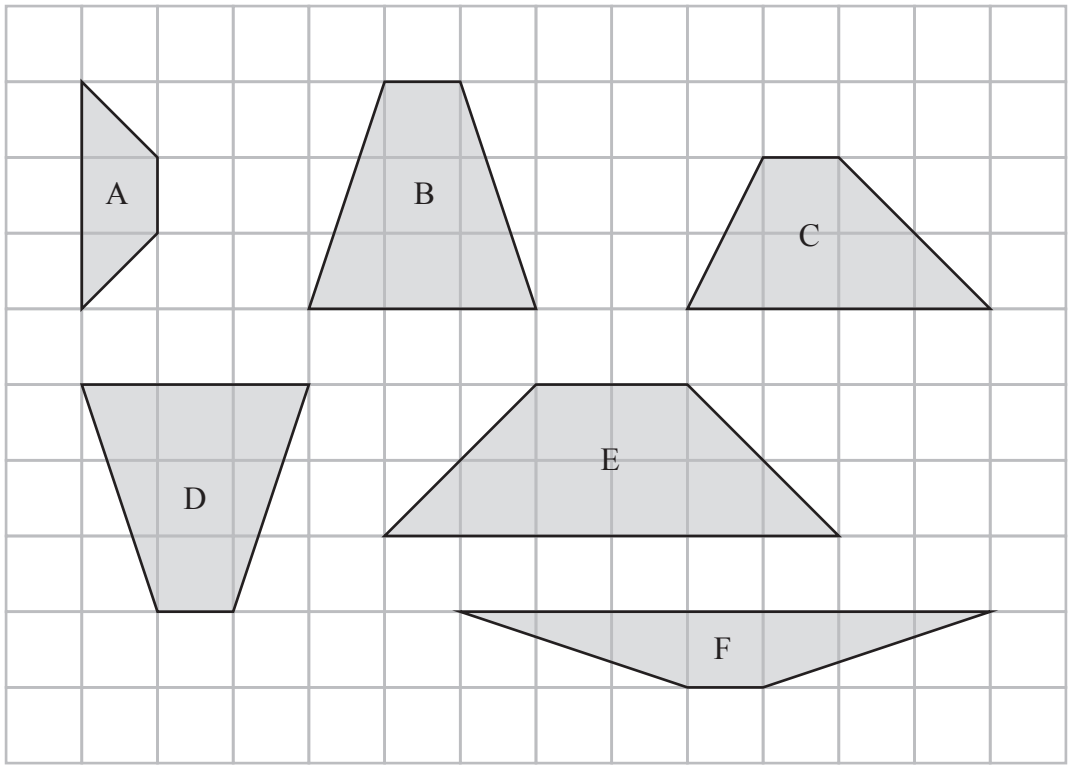
(1)

(ii) Write down the number of edges of this shape.

.....

(1)

Here are six quadrilaterals on a grid.



Two of the quadrilaterals are congruent.

(b) Write down the letters of these two quadrilaterals.

..... and .....

(1)

(c) Write down the letter of the quadrilateral with no lines of symmetry.

.....

(1)

(Total for Question 3 is 4 marks)

4 (a) Change 5000 millilitres into litres.

..... litres

(1)

(b) Find the difference between a length of 3 metres and a length of 85 centimetres.
Give your answer in centimetres.

..... centimetres

(2)

(Total for Question 4 is 3 marks)

5 (a) Simplify $a + a + a + a + a$

.....

(1)

(b) Simplify $b \times c \times 7$

.....

(1)

(c) Solve $5d = 40$

$d =$ .....

(1)

(Total for Question 5 is 3 marks)

6 Here is a number machine.

(a) Find the output when the input is 10

.....

(1)

(b) Find the output when the input is −2

.....

(1)

(Total for Question 6 is 2 marks)

7 Raymond sells 80 burgers for a total of £176

$\frac{1}{5}$ of the burgers are large.

Each large burger costs £3

The remaining burgers are small.

Work out the cost of one small burger.

£.....

(Total for Question 7 is 4 marks)

8 Mark is going to book a room in a hotel for 7 nights.

A room in the hotel costs the same amount for each night.
Mark knows that the room costs 150 euros for 2 nights.

The hotel also charges an additional tax of 5 euros for each night.

Work out the total cost of the room and the tax for 7 nights.

..... euros

(Total for Question 8 is 3 marks)

9 Remy chooses one food item and one drink for his breakfast.

He can choose one food item from cereal (C) or fruit (F) or a pastry (P)
He can choose one drink from milk (M) or juice (J) or tea (T)

(a) Write down all the possible combinations that Remy can choose.

.....

.....

(2)

Ahmed and Bryn share some blueberries in the ratio 3 : 4

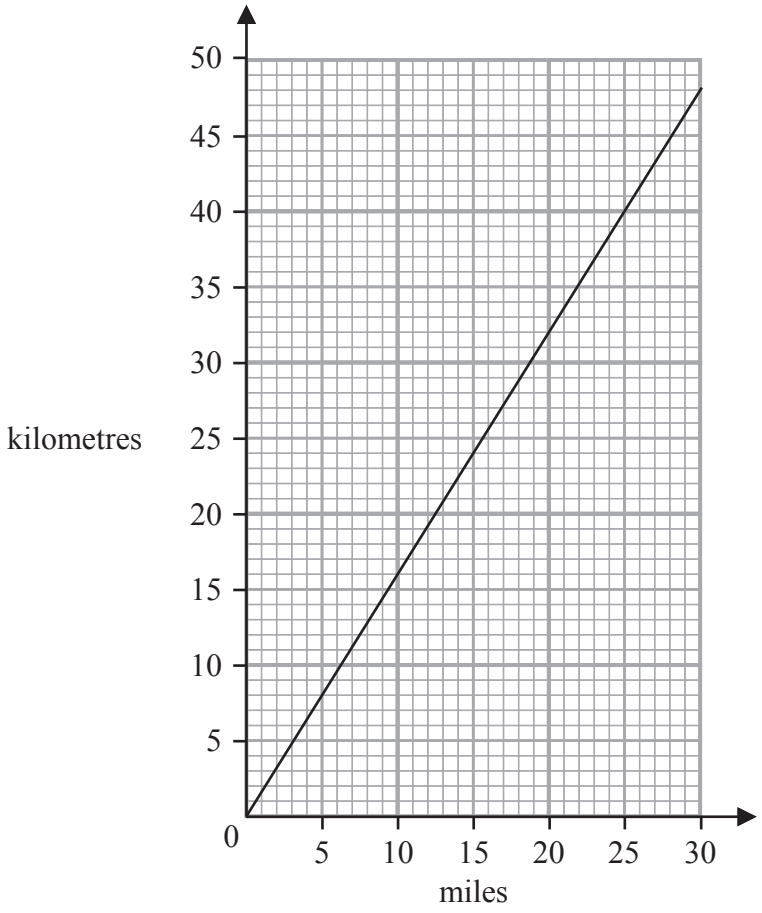
(b) What fraction of the blueberries does Bryn get?

.....

(1)

(Total for Question 9 is 3 marks)

10 This graph can be used to change between miles and kilometres.



(a) Use the graph to change 25 miles to kilometres.

..... kilometres
(1)

Amy gets travel expenses when she drives as part of her job.
She gets \$0.80 for every kilometre she drives.

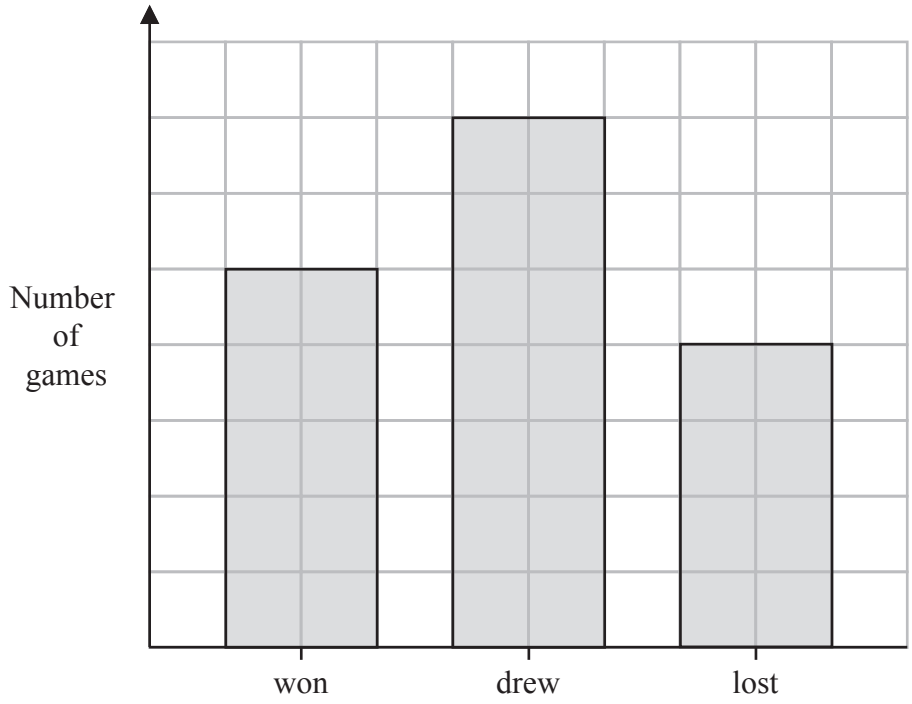
For one journey Amy got \$19.20

(b) Work out the number of miles she drove.

..... miles
(2)

(Total for Question 10 is 3 marks)

11 The bar chart gives information about the results of the games played by a school team.



The team gained

3 points for each game it won
1 point for each game it drew
0 points for each game it lost

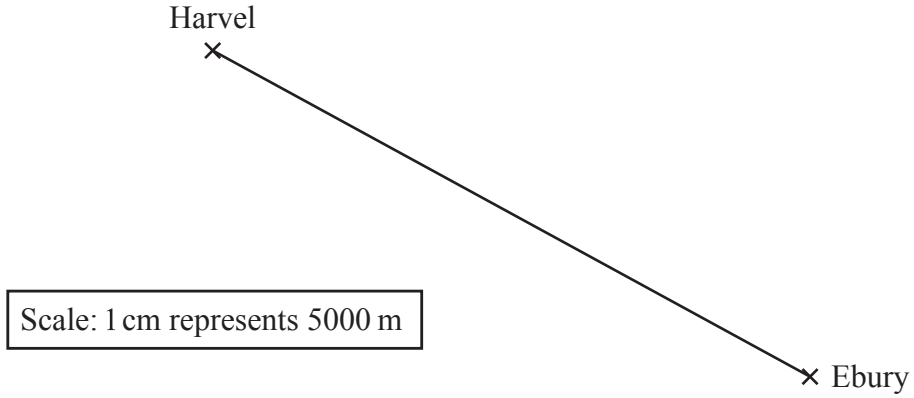
The team drew 14 games.

Work out the total number of points the team gained.

.....

(Total for Question 11 is 3 marks)

12 The scale drawing shows the positions of two towns, Harvel and Ebury.



(a) Work out the real distance, in kilometres, between Harvel and Ebury.

..... kilometres
(3)

On Saturday, Luisa cycles directly from Harvel to Ebury.

Luisa leaves Harvel at 12 50
She arrives at Ebury at 17 15

(b) Work out the time Luisa takes to cycle directly from Harvel to Ebury.

..... hours ..... minutes
(2)

(Total for Question 12 is 5 marks)

13 (a) Factorise $15 - 5x$

.....

(1)

$d = 5p + 7r$

(b) Work out the value of p when $d = 35$ and $r = 2$

$p =$ .....

(3)

Sweets are sold in small packets and large packets.

There are 12 sweets in a small packet.
There are 25 sweets in a large packet.

Ben buys m small packets of sweets and n large packets of sweets.

(c) (i) Write an expression, in terms of m and n, for the total number of packets of sweets Ben buys.

.....

(1)

(ii) Write an expression, in terms of m and n, for the total number of sweets Ben buys.

.....

(2)

(Total for Question 13 is 7 marks)

14 Here is a list of ingredients needed to make 6 biscuits.

Biscuits

Makes 6 biscuits

60 g sugar
75 g butter
1 egg
90 g flour
65 g chocolate

Asha makes some of these biscuits.
She uses 450 g of flour.

(a) How many biscuits does Asha make?

.....

(2)

Julie makes 84 of these biscuits.

(b) What weight of butter does Julie use?

..... g

(2)

Asha and Julie pay a total of 624 rupees for the ingredients.
The ratio of the amount Asha pays to the amount Julie pays is 3 : 5

(c) How much does Julie pay?

..... rupees

(2)

(Total for Question 14 is 6 marks)

15 Joseph has some counters in a bag.

7 of the counters are red
5 of the counters are blue
The rest of the counters are green

Joseph is going to take at random a counter from the bag.

The probability that the counter is green is $\frac{2}{5}$

Work out the number of green counters in the bag.

.....

(Total for Question 15 is 3 marks)

16 The diagram shows a quadrilateral *ACDF*

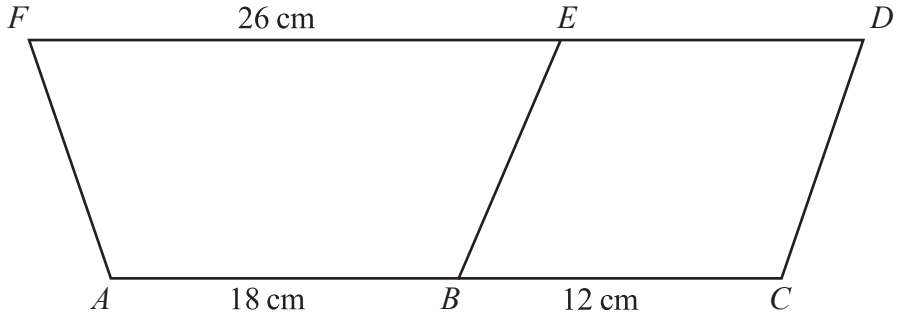


Diagram **NOT** accurately drawn

ABEF is a trapezium.
BCDE is a parallelogram.

$FE = 26\,\text{cm}$ $AB = 18\,\text{cm}$ $BC = 12\,\text{cm}$

The area of the parallelogram *BCDE* is $96\,\text{cm}^2$

Work out the area of the trapezium *ABEF*

..... cm^2

(Total for Question 16 is 3 marks)

17 (a) Factorise fully $18c - 45cd$

.....

(2)

(b) Solve $\frac{5 - 2x}{6} = 3x - 4$

Show clear algebraic working.

$x =$ .....

(3)

(Total for Question 17 is 5 marks)

18 Write 1400 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 18 is 3 marks)

19 Solve the simultaneous equations

$$3x + 2y = 10$$
$$3x - 4y = 16$$

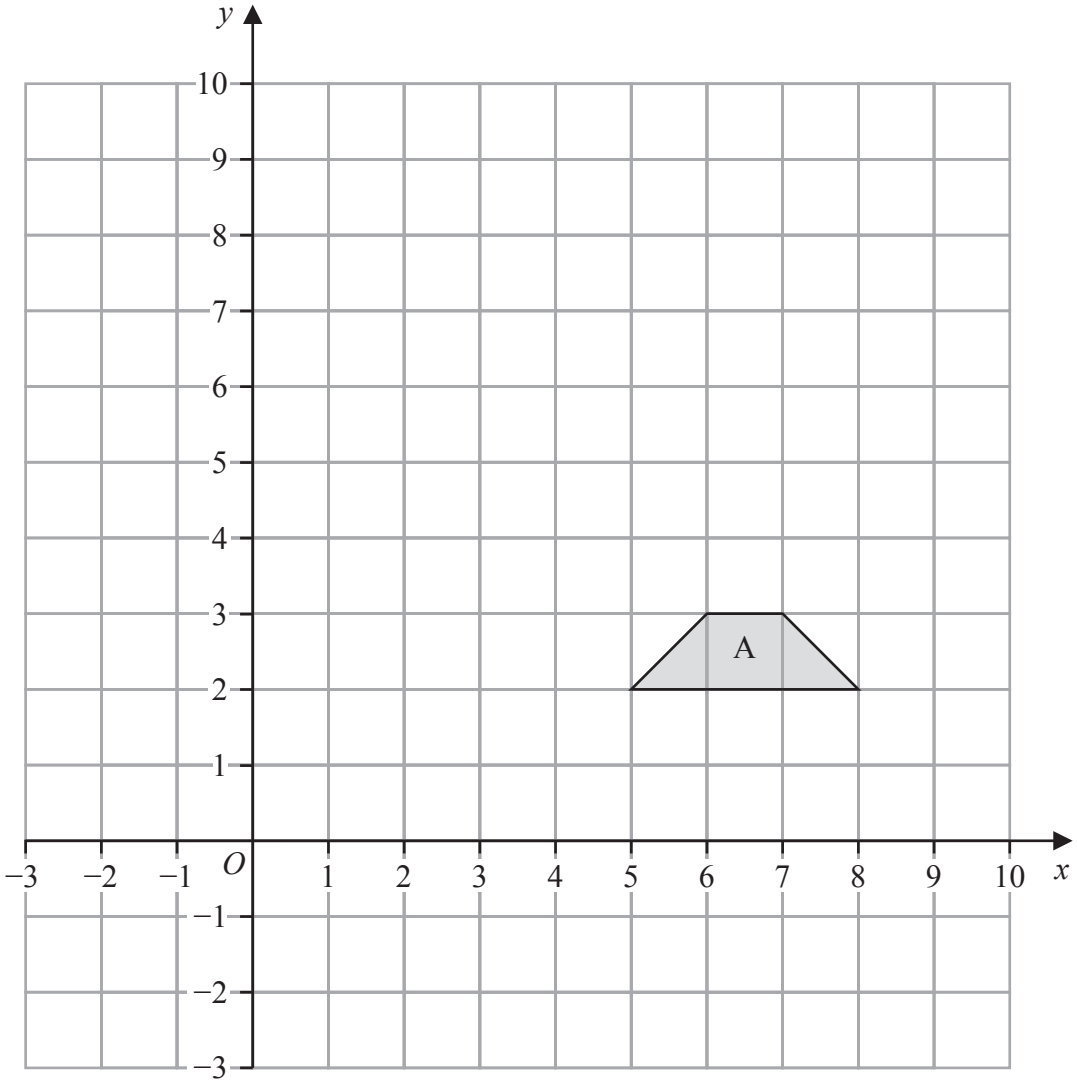
Show clear algebraic working.

$x =$ .....

$y =$ .....

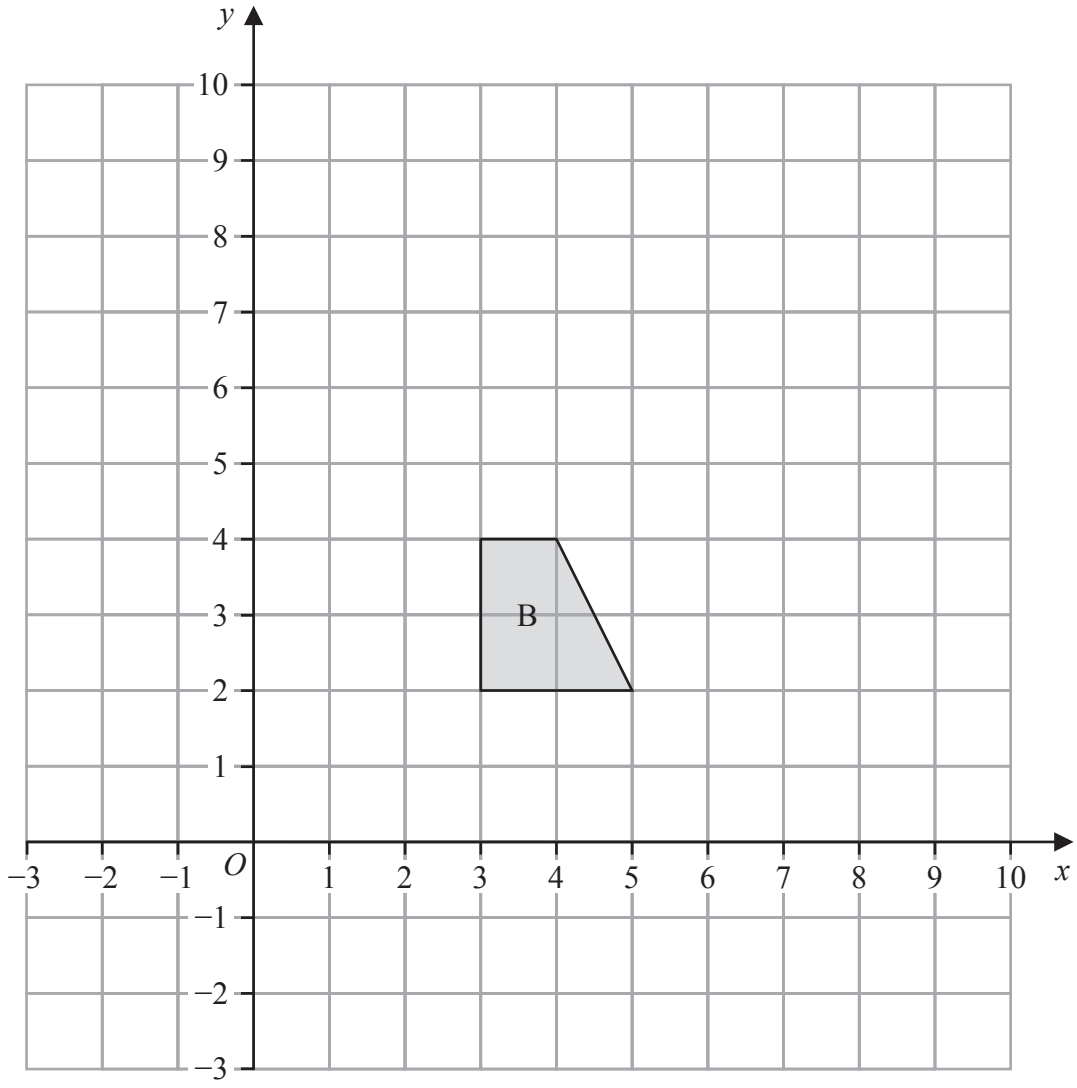
(Total for Question 19 is 3 marks)

20



(a) On the grid above, reflect shape **A** in the line $y = x$

(2)



(b) On the grid above, enlarge shape **B** by scale factor 2 with centre (1, 1)

(2)

(Total for Question 20 is 4 marks)

21 Joshua is going to cover a floor with tiles for a customer.
The area of the floor is 45 m^2

Joshua buys one box of tiles for each 1.5 m^2 of floor area.
Each box of tiles costs £64

Joshua also buys 5 bags of tile adhesive.
Each bag of tile adhesive costs £12

Joshua charges the customer £3000

Work out his percentage profit.
Give your answer correct to one decimal place.

.....%

(Total for Question 21 is 5 marks)

22 (a) Write down the value of 5^0

.....

(1)

$$\frac{5^9 \times 5^{-3}}{5^{-2}} = 5^k$$

(b) Find the value of k

$k =$ .....

(2)

(c) Simplify fully $\left(2d^4e^5\right)^3$

.....

(2)

(Total for Question 22 is 5 marks)

23 The mass of a silver coin is 48.3 g
The density of silver is 10.5 g/cm^3

Work out the volume of the silver coin.

..... cm^3

(Total for Question 23 is 2 marks)

24 The mean of 7 numbers is 60

The mean of 3 of the numbers is 46

Work out the mean of the other 4 numbers.

.....

(Total for Question 24 is 3 marks)

25 In a sale, normal prices are reduced by 15%

The sale price of a dishwasher is 612 Swiss francs.

Work out the normal price of the dishwasher.

..... Swiss francs

(Total for Question 25 is 3 marks)

26 A straight line, **L**, is parallel to the line with equation $y = 2 - 5x$
The line **L** passes through the point (0, 6)

Find an equation of the line **L**

.....

(Total for Question 26 is 2 marks)

27 The diagram shows two triangles, *ADE* and *CDB*

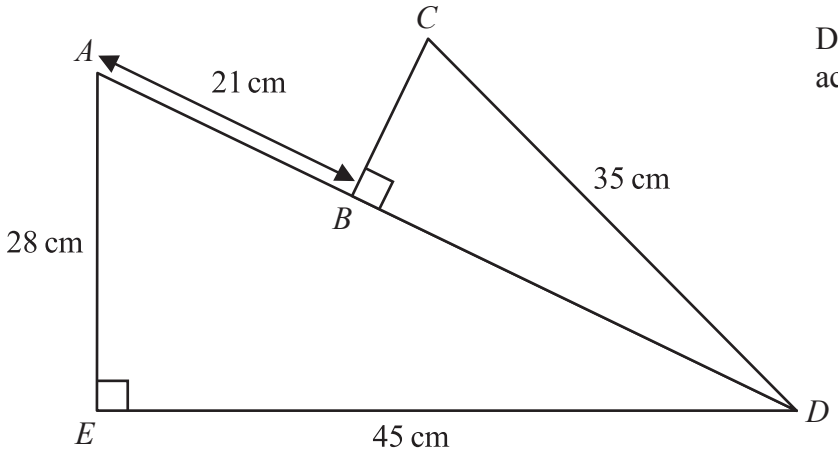


Diagram **NOT** accurately drawn

ABD is a straight line.

$AE = 28\,\text{cm}$ $ED = 45\,\text{cm}$ $AB = 21\,\text{cm}$ $CD = 35\,\text{cm}$

angle *AED* = angle *CBD* = 90°

Work out the area of triangle *CDB*
Give your answer correct to 3 significant figures.

..... cm^2

(Total for Question 27 is 5 marks)

TOTAL FOR PAPER IS 100 MARKS