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I declare this is my own work.

Functional Skills Level 2 MATHEMATICS

Paper 2 Calculator

Monday 13 January 2020

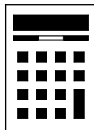
Afternoon

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

For Examiner's Use	
Question	Mark
1–7	
8	
9	
10	
11	
12	
TOTAL	

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

Advice

In all calculations, show clearly how you work out your answer.

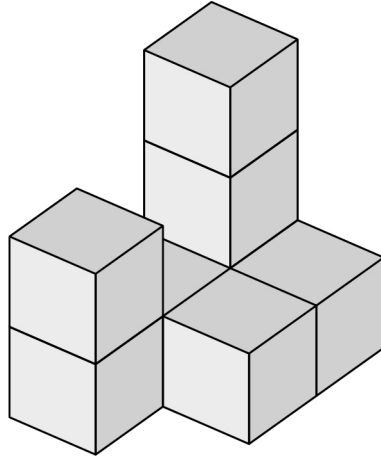


J A N 2 0 8 3 6 2 2 0 1

Section A

Answer **all** questions in the spaces provided.

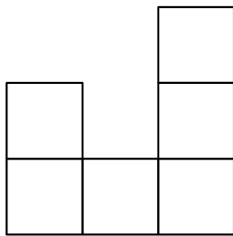
- 1 The diagram shows a 3-D shape.



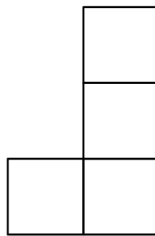
Which is the plan view of the shape?
Circle the correct letter.

[1 mark]

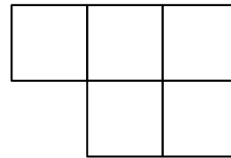
A



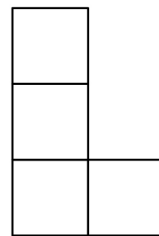
B



C

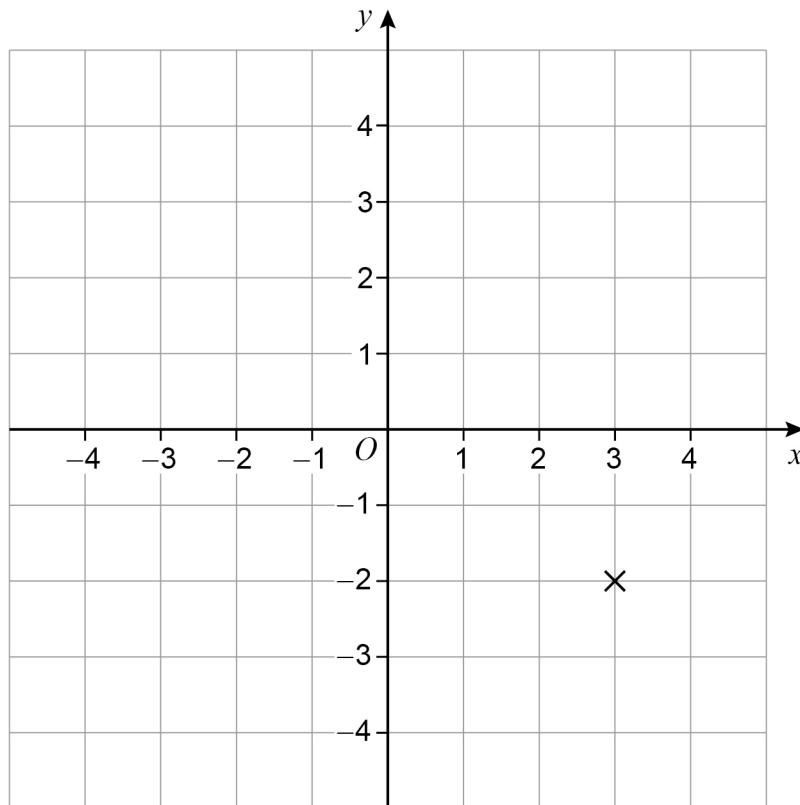


D



2 Write down the coordinates of the point marked X.

[1 mark]



Answer (_____ , _____)

3 Increase 1670 by 27%

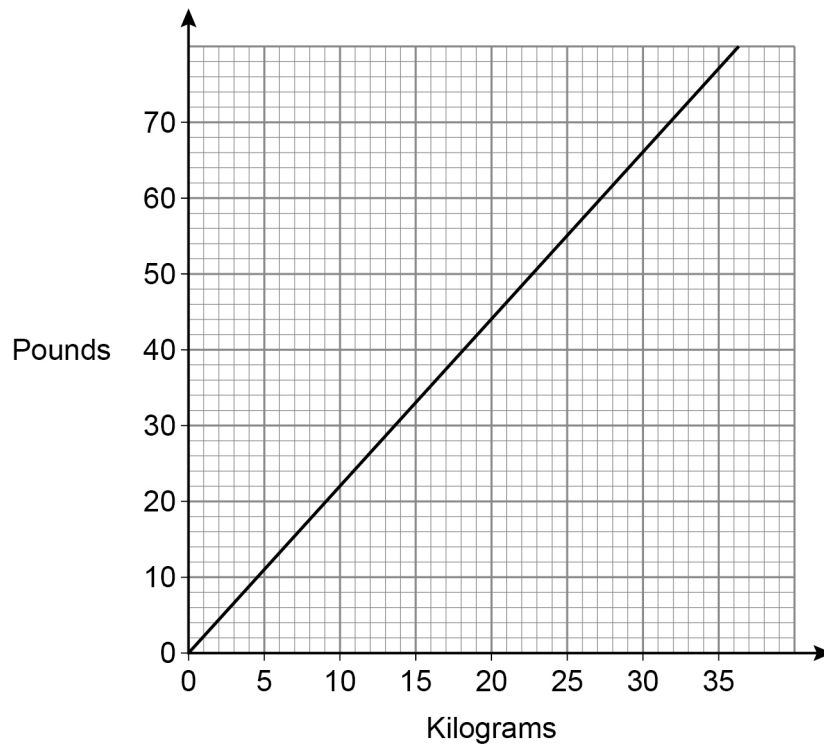
[2 marks]

Answer _____

Turn over ►



- 4 The graph can be used to convert between pounds and kilograms.



Use the graph to convert 40 pounds to kilograms.

[2 marks]

Answer _____ kilograms



5 Calculate $1\frac{3}{4} + 2\frac{4}{5}$

[1 mark]

Answer _____

6 Complete the table to show equivalent fractions, decimals and percentages.

[2 marks]

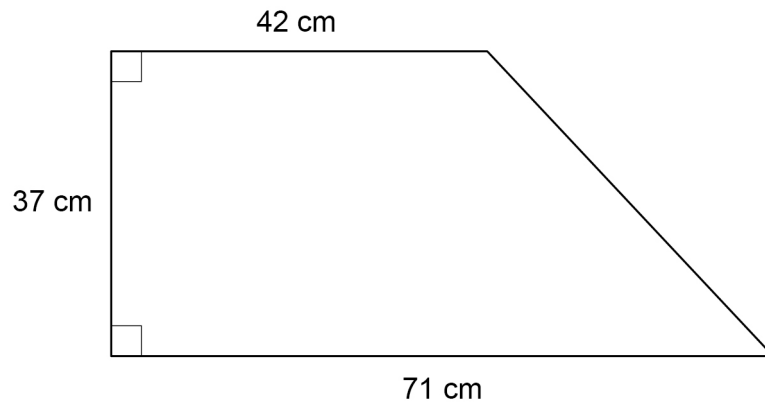
Fraction	Decimal	Percentage
$\frac{3}{8}$		37.5%
	0.15	15%

Turn over for the next question

Turn over ►



- 7 A shape is made from a rectangle and a triangle.



Not drawn
accurately

Work out the area of the shape.

[3 marks]

Answer _____ cm^2

12



Section B

Answer **all** questions in the spaces provided.

8 Fashion blogger

Alex is a fashion blogger.

Companies pay her to promote their goods.

8 (a) Alex writes 30 posts promoting Company A.

The table shows the number of views of each post.

Number of views, x	Frequency		
$0 \leq x < 30\,000$	5		
$30\,000 \leq x < 60\,000$	9		
$60\,000 \leq x < 90\,000$	12		
$90\,000 \leq x < 120\,000$	4		
	Total = 30		

Alex also writes 23 posts promoting Company B.

The total number of views of these posts is 1 223 600

Which company receives the **higher** average number of views, A or B?

You **must** show your working.

[4 marks]

Turn over ►



Some of the posts were about clothing and the rest were about shoes.

The table shows the number of each.

	Company A	Company B
Clothing	21	13
Shoes	9	10

One of the posts is chosen at random.

8 (b) Work out the probability that it is about clothing.

[1 mark]

Answer _____

8 (c) Work out the probability that it is from Company A **and** is about shoes.

[1 mark]

Answer _____



- 8 (d)** In a year, Alex wrote 1460 posts promoting companies.
She was paid £75 for each post that had at least 65 000 views.
In total, she was paid £36 000

What percentage of her posts had at least 65 000 views?

[3 marks]

Answer _____ %

9

Turn over for the next question

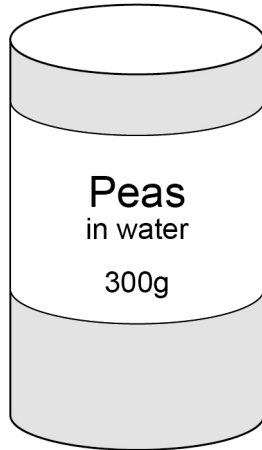
Turn over ►



9 Tinned food

A company makes tinned food.

9 (a) A tin is filled with peas and water.



The contents of the tin have a total mass of 300 grams.

mass of peas : mass of water = 3 : 2

240 of these tins are packed into a box.

Work out the total mass of peas in the box.

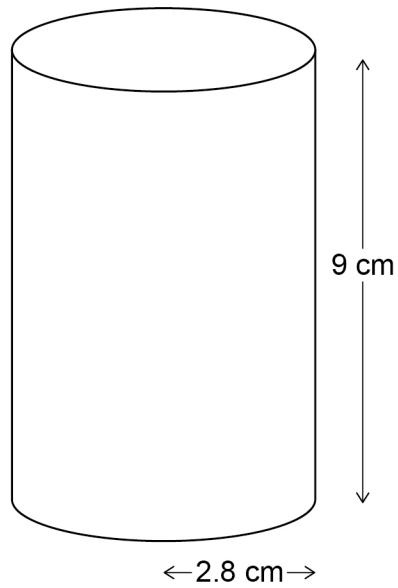
Give your answer in kilograms.

[5 marks]

Answer _____ kilograms



- 9 (b) A tin for carrots is a cylinder with radius 2.8 cm and height 9 cm



When filled, one sixth of the volume of the tin of carrots is water.
The company uses 425 litres of water each day in tins of carrots.
1 litre = 1000 cm³

How many tins of carrots does the company make each day?

[5 marks]

Answer _____

10

Turn over ►



10 University student

Marco is about to start university.

The table shows his total expected income for the **year**.

	Amount (£)
Student loan	8700
Part-time job	4800

Marco budgets for the following expenses each **month** for 12 months.

	Amount per month (£)
Accommodation	589.00
Living expenses	186.00
Entertainment	65.00
Travel	87.50

10 (a) Marco will save any income that he does not spend.

How much does he expect to save in the **year**?

[4 marks]

Answer £ _____



- 10 (b)** On Marco's 14th birthday, his parents put £2000 into a bank account for him.
The account pays compound interest at a rate of 1.5% per annum.
Marco can access the account on his 21st birthday.

How much will be in the account on his 21st birthday?

[3 marks]

Answer £ _____

7

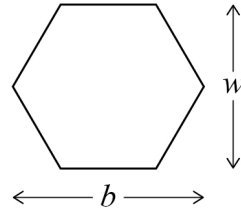
Turn over for the next question

Turn over ►



11 Jewellery

- 11 (a)** Mo makes and sells jewellery.
He makes pendants in the shape of hexagons.
The hexagons are made of glass and have wire around the perimeter.



Not drawn
accurately

Here is a formula for the perimeter, P , of the hexagon.

$$P = 6 \times \sqrt{\left(\frac{b}{4}\right)^2 + \left(\frac{w}{2}\right)^2}$$

b is the length of the pendant

w is the width of the pendant

Mo makes pendants with length 6.4 cm and width 5.5 cm

He buys the wire in reels with 4 metres of wire on each reel.

How many pendants can Mo make using one reel of wire?

You **must** show your working.

[5 marks]

Answer _____



11 (b) Mo makes some pendants.

The glass in each pendant is red, blue or yellow.

$\frac{2}{11}$ of the pendants are red

blue pendants and yellow pendants are in the ratio 2 : 1

What fraction of the pendants are blue?

[4 marks]

Answer _____

9

Turn over for the next question

Turn over ►



- 12 (b)** Steph works out the cost of her trip, including the return journey.
She will use her car to drive 108 miles **each way**.
She and her 3 friends will share the cost of fuel equally.
Her car travels 12.5 miles per litre of fuel.
Fuel costs 128.8p per litre.

Steph will also pay

£3 for a return train ticket

£30 for a match ticket

£8 for food.

Work out the total amount Steph will pay for her trip.

[6 marks]

Answer £ _____

Question 12 continues on the next page

Turn over ►



There are no questions printed on this page

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outside the
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ANSWER IN THE SPACES PROVIDED**



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2 4



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