

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Set 7

Time: 25 minutes

Paper Reference **PMAT1/N07**

Mathematics

Level 1

Section A (Non-Calculator)



You must have:

Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

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.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**
- Take the value of π to be 3.14

Information

- The total mark for this section is 14.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- This sign shows where marks will be awarded for showing your checks.

Advice

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

Turn over ►

P68464A

©2021 Pearson Education Ltd.

1/1/1




Pearson

SECTION A

Answer ALL questions. Write your answers in the spaces provided.

1 Chen is a weather presenter on TV.

The map shows the temperatures in five cities at noon on Monday.
The temperatures are all shown in degrees Celsius.

Chen says

“The range of these temperatures at noon on Monday is
8 degrees Celsius.”



(a) Is Chen correct?
Show why you think this.

(2)



(b) Use a reverse calculation to show a check for your answer.

(1)

(Total for Question 1 is 3 marks)

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



- 2 Paulo invests £2000 for 7 years.
His investment earns 5% simple interest per year.

Work out the total amount of interest the investment earns in the 7 years.

(3)

£

(Total for Question 2 is 3 marks)



3 The probability of an event happening is $\frac{7}{10}$

(a) Which of these words best describes the likelihood of this event happening?

(1)

Tick (✓) a box to show your answer.

impossible	unlikely	evens	likely	certain
[]	[]	[]	[]	[]

Here are 4 numbers.

714

720

726

724

(b) Calculate the mean of the 4 numbers.

(3)

(Total for Question 3 is 4 marks)

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



- 4 Harry sells bags of pasta.
A bag holds 3 kilograms of pasta.
- Harry decides to sell pasta in boxes.
A box holds 20% more pasta than a bag.
- A customer buys 10 boxes of pasta.

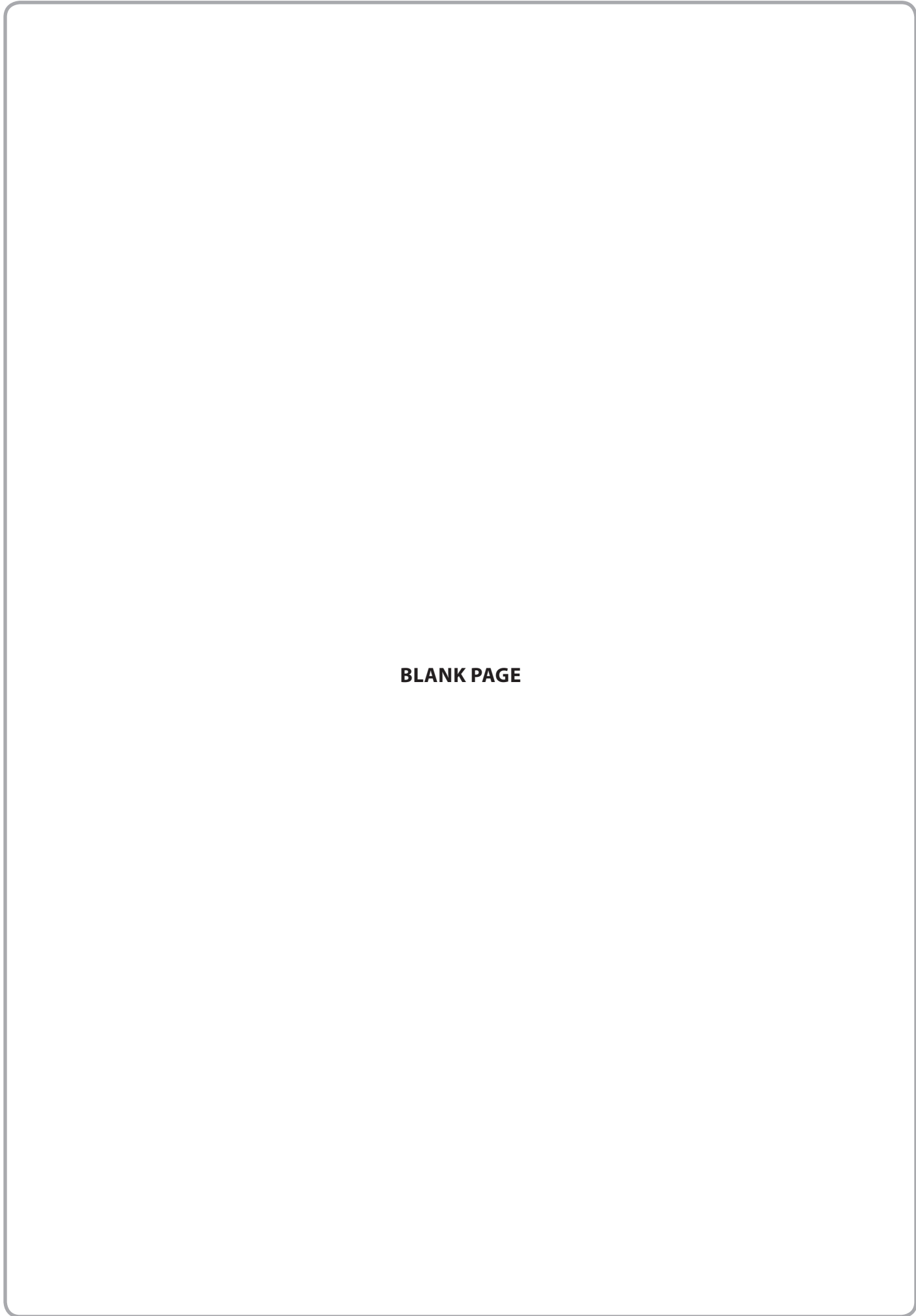
How many kilograms of pasta does the customer buy?
You **must** show your working.

(4)

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS





BLANK PAGE

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



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

BLANK PAGE



P 6 8 4 6 4 A 0 7 0 8

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE



Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Set 7

Time: 1 hour 30 minutes

Paper Reference **PMAT1/C07**

Mathematics

Level 1

Section B (Calculator)



You must have:

Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

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.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a π button take the value of π to be 3.14.

Information

- The total mark for this section is 42.
- The total mark for this paper is 56.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- This sign shows where marks will be awarded for showing your checks.

Advice

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

Turn over ►

P68465A

©2021 Pearson Education Ltd.

1/1/1/1




Pearson

SECTION B

Answer ALL questions. Write your answers in the spaces provided.

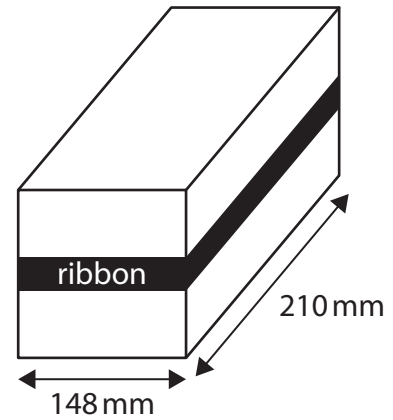
1 Jenni has a decorative box business.

She has a box in the shape of a cuboid
210 mm long and 148 mm wide.

Jenni is going to glue one piece of ribbon around
all four side faces of the box.

The ribbon will not overlap.

Jenni thinks a 72 cm piece of ribbon will be long enough.



Is Jenni correct?
Show why you think this.

(3)

(Total for Question 1 is 3 marks)

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



2 A bag contains 26 counters.

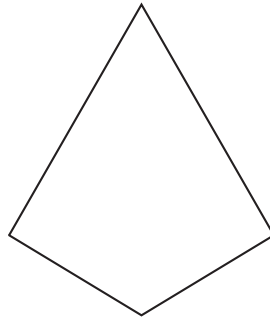
5 of the counters are green.
The remainder of the counters are orange.

One counter is chosen at random.

(a) Work out the probability the counter is orange.

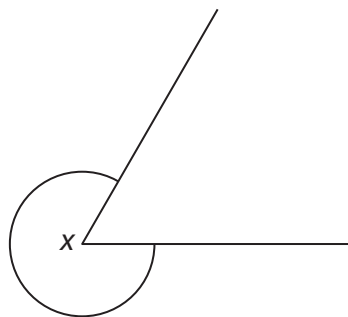
(2)

Here is a drawing of a kite.



(b) Draw the line of symmetry on the kite.

(1)



(c) Measure and write down the size of the reflex angle x .

(1)

--

(Total for Question 2 is 4 marks)



P 6 8 4 6 5 A 0 3 1 6

3

(a) Write three thousand two hundred and fifty seven in figures.

(1)

(b) Write the number 1024 in words.

(1)

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



Ella works in a post room.
She has these parcels to post.

Here are the exact weights of the parcels.

25 kg	13 kg	11 kg	11 kg	3000 g
12 kg	28 kg	2 kg	8 kg	1 kg
6000 g	22 kg	14 kg	25 kg	28 kg
10 kg	1 kg	16 kg	21 000 g	7 kg

Ella uses a frequency table to sort the parcels into 3 groups by weight to work out the cost of postage.

(c) Complete the frequency table for Ella.

(3)

weight (kg)	tally	frequency
0 to 2		
3 to 20		
21 to 30		

(Total for Question 3 is 5 marks)



- 4 A robot is programmed to move around a grid.
The direction of North is shown on the grid.

The robot can move forward and can turn.
The robot follows this set of instructions.

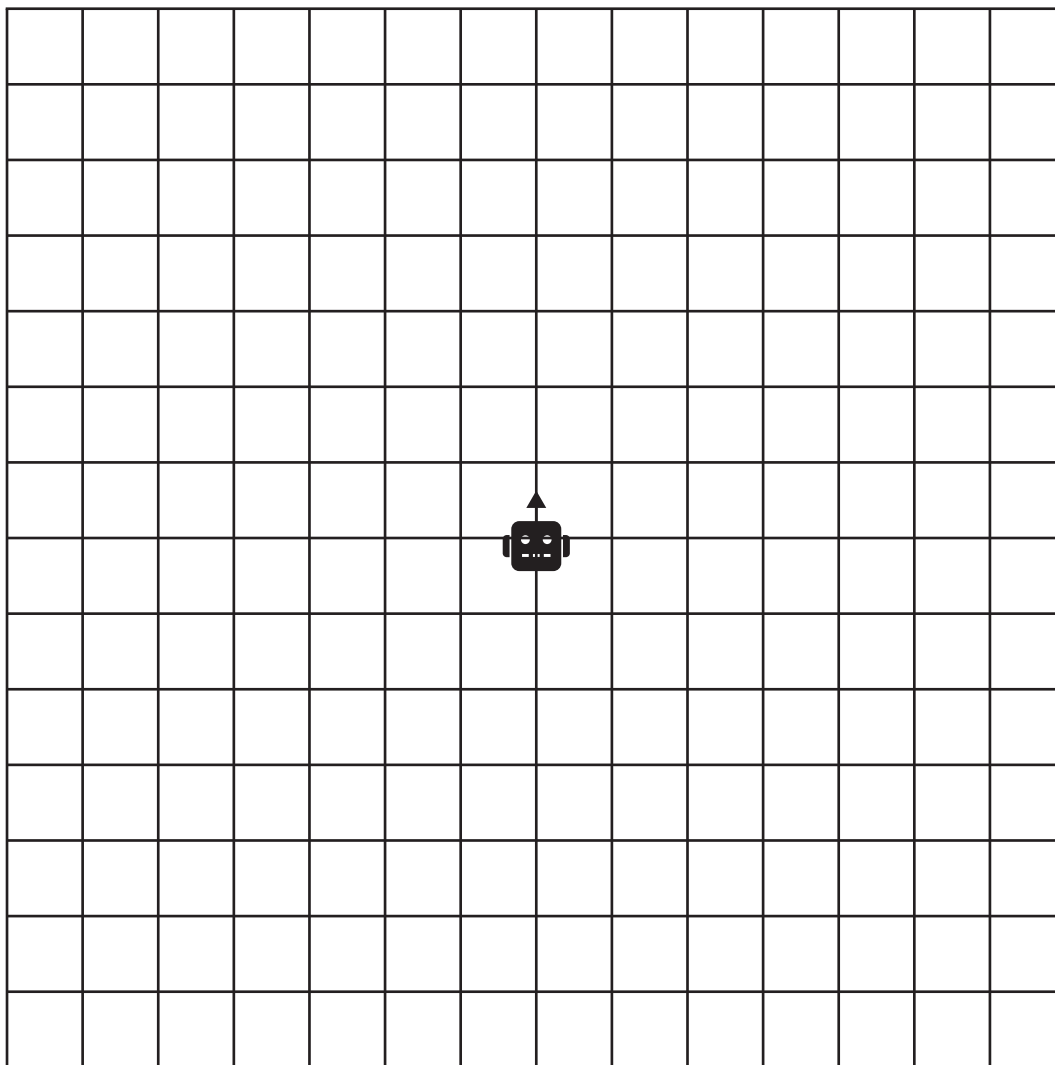
Start


- 1 move 50 cm forward to position *A*
- 2 turn on a bearing of 270°
- 3 move 60 cm forward to position *B*

End

On the grid, mark with a cross (X) and label each of position *A* and position *B*.

(3)



Key 1 square length on the grid represents 10 cm
 robot start position facing direction of arrow

(Total for Question 4 is 3 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

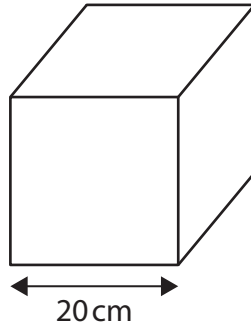
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



5 A cube has side length 20 cm.



Calculate the volume of the cube.
State the units in your answer.

(3)

(Total for Question 5 is 3 marks)



6 Grace looks at her electricity bill for November.

Electricity bill	
meter reading last time	20312 (kWh)
meter reading this time	22198 (kWh)
unit cost	5.4 pence per kWh used
<hr/>	
standing charge	30 days at 16.74 pence per day
<hr/>	
total bill for November	£105.84

Grace knows the meter readings are correct.

Is the total amount on the bill for November correct?
You **must** show your working.

(6)

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



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

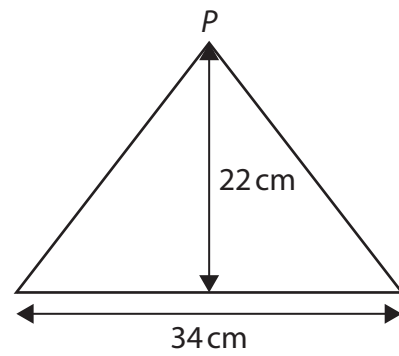


(Total for Question 6 is 6 marks)



7 The diagram shows a triangle.

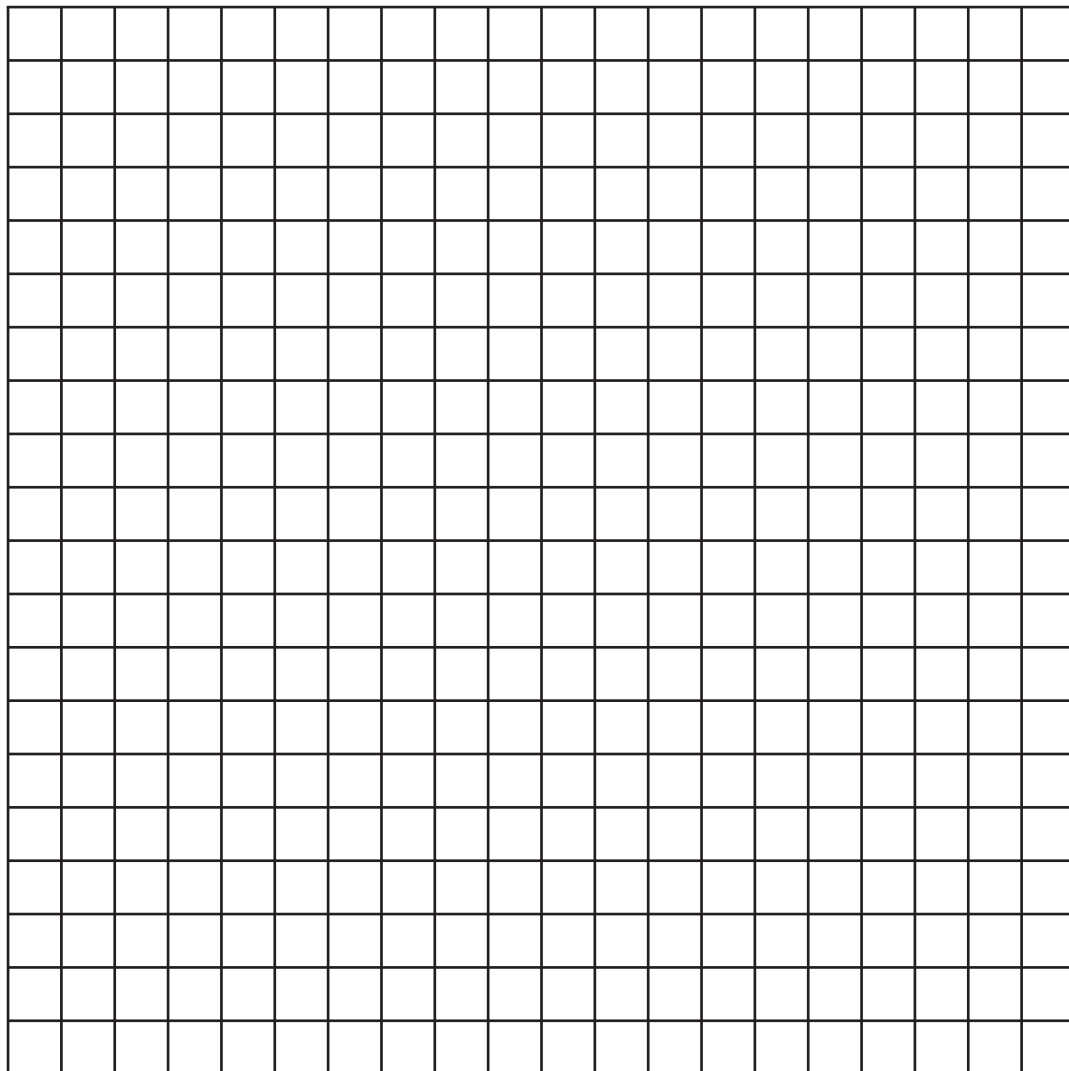
The triangle has base length 34 cm and height 22 cm.
Point P on the triangle is directly above the middle of the base.



Draw a scale diagram of the triangle on the grid below.

(3)

Key 1 square length on the grid represents 2 cm on the triangle



(Total for Question 7 is 3 marks)



8 Three groups of students are going on a school trip together on a coach.

Group A has 13 students.

Group B has 17 students.

Group C has 20 students.

There should be 1 adult for every 16 students on the coach.

Work out the least number of adults that are needed on the coach for this school trip.

(3)

(Total for Question 8 is 3 marks)



P 6 8 4 6 5 A 0 1 1 1 6

9 Yolanda buys a coat online.
The normal price of the coat is £205
Yolanda uses a 15% discount code.

(a) Work out the price of the coat after the discount.

(3)

£



(b) Show a check of your answer.

(1)

(Total for Question 9 is 4 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

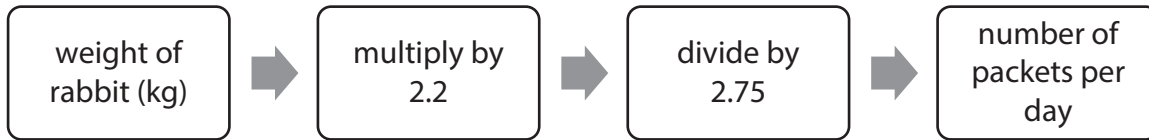
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



10 Abi has a pet rabbit that weighs 5 kg.
She buys packets of food for her rabbit.

Abi has this information about the number of packets of food rabbits need each day.



How many packets of food does her rabbit need each day?

(3)

(Total for Question 10 is 3 marks)



11 Edward is writing an article about a sponsored race for charity.

Edward knows

180 people are running in the race

$\frac{1}{4}$ of the people are running for pet charities

$\frac{2}{9}$ of the people are running for health charities.

The rest of the people are running for youth charities.

Edward wants to know the number of people running for youth charities.

Work out the number of people running for youth charities.

(5)

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



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



(Total for Question 11 is 5 marks)

TOTAL FOR SECTION B IS 42 MARKS
TOTAL FOR PAPER IS 56 MARKS



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE

