Candidate surname | Other names

Pearson Edexcel Functional Skills

Centre Number | Candidate Number

Past Paper 10

Time: 25 minutes | Paper Reference **PMAT1/N10**

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 ▶

P 6 8 4 7 5 A 0 1 0 8

SECTION A

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

1 Samira reads the results of a holiday survey.

We asked 860 people about their holidays.

15% of these people said that Greece was their favourite holiday destination.

Samira thinks that more than 100 people said that Greece was their favourite holiday destination.

Is she correct?
You **must** show your working.

(3)

(Total for Question 1 is 3 marks)

2 Norbert is a doctor.
He starts his first shift of the week on Monday at 8 pm.
The shift lasts 12 hours.

Norbert then has 30 hours off work.
He then starts his second shift of the week.

Work out the day and time Norbert starts his second shift of the week.

(3)

Day:

Time:

(Total for Question 2 is 3 marks)

3 Here are some numbers.

147   116   213   394   178   312

(a) Work out the range of these numbers.

(2)

(b) Round 4.749 to 1 decimal place.

(1)

(c) Convert 0.9 kilogram into grams.

(1)

grams

(Total for Question 3 is 4 marks)

4 Zac is a hotel manager.
He knows that 3 out of every 5 guests usually order room service on a Saturday.

There are 624 guests staying at the hotel this Saturday.

(a) Use **estimation** to work out the number of guests Zac expects to order
room service this Saturday.
You **must** show your working.

(3)

guests

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

(1)

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS

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Candidate surname | Other names

Pearson Edexcel Functional Skills

Centre Number | Candidate Number

Past Paper 10

Time: 1 hour 30 minutes | Paper Reference **PMAT1/C10**

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 ▶

P 6 8 4 7 6 A 0 1 1 6

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

1 Inka looks at the performance reports for 2020 from three companies.

Company A made three quarters of a million pounds profit.

Company B made £648 900 profit.

Company C made seven hundred and twenty-five thousand pounds profit.

(a) Which company made the most profit in 2020?
Show why you think this.

(2)

Here are some numbers.

2.89   2.39   3.09   2.41   2.9

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

(1)

(Total for Question 1 is 3 marks)

2 Alex and Seamus play golf.

Alex played 90 games of golf last year.
She won 60% of these games.

Seamus played 80 games of golf last year.
He won 55% of these games.

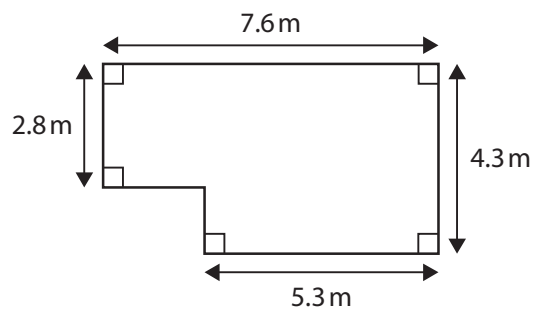Alex thinks that last year she won 12 more games than Seamus did.

Is she correct?
Show why you think this.

(4)

(Total for Question 2 is 4 marks)

3 Akeem wants to put wooden flooring in a room.

He has this sketch of the floor in the room.

7.6 m

2.8 m

4.3 m

5.3 m

Akeem will buy the wooden flooring in packs.
Each pack covers an area of $0.4 \, m^2$

Akeem can cut and join the flooring.

Work out the number of packs of wooden flooring Akeem needs to buy.

(5)

packs

(Total for Question 3 is 5 marks)

4 Jared has part of a map.
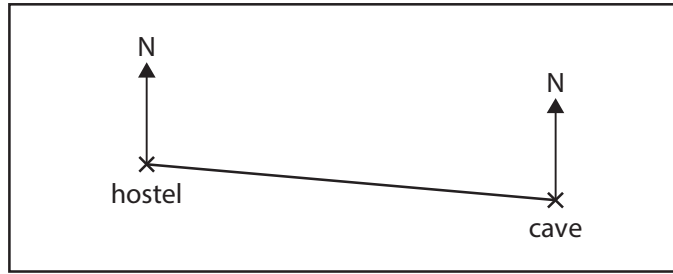
(a) Write down the bearing of the cave from the hostel.
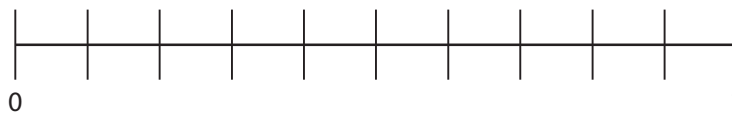Remember to show the units.

(2)

Jared goes to the cave on Friday.

He knows that the probability of sunny weather on Friday is $\frac{7}{10}$

(b) Mark this probability with a cross (x) on the scale below.

(1)

0   1

(Total for Question 4 is 3 marks)

5 Jesse is the head of sport at a college.
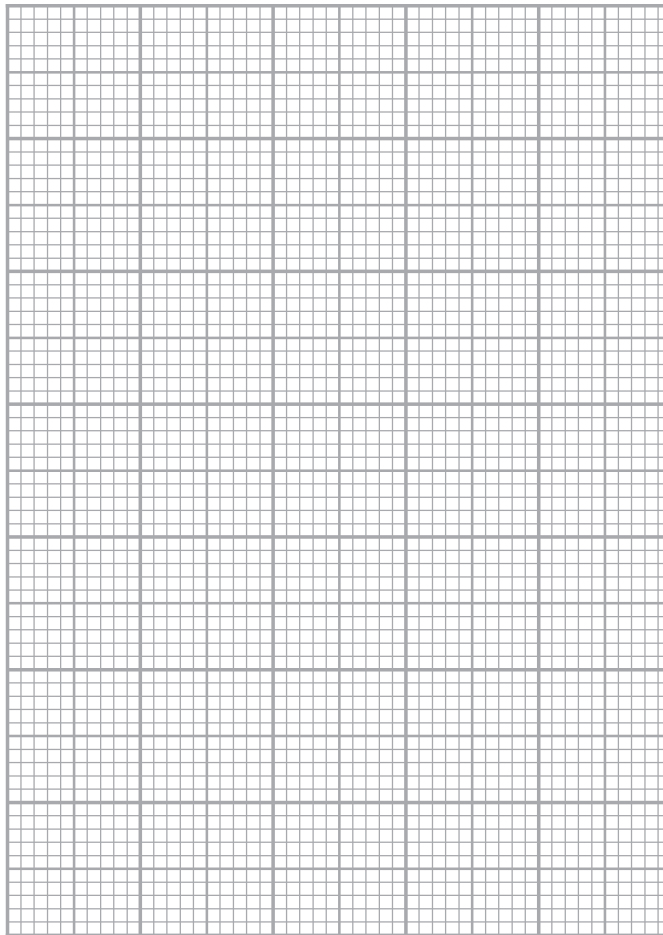
He has data about the number of students studying sport for the five academic years.

academic year	15/16	16/17	17/18	18/19	19/20
number of students	34	46	82	98	70

Jesse will show this data in a bar chart at a staff conference.

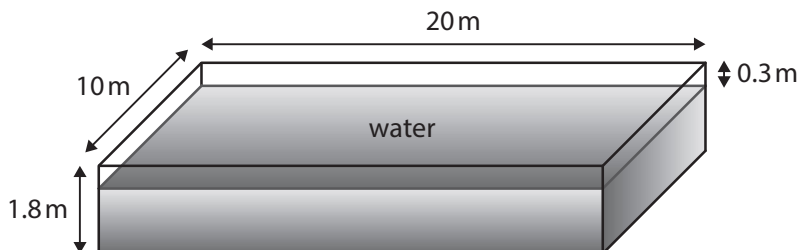Draw a suitable bar chart for Jesse.

(3)

(Total for Question 5 is 3 marks)

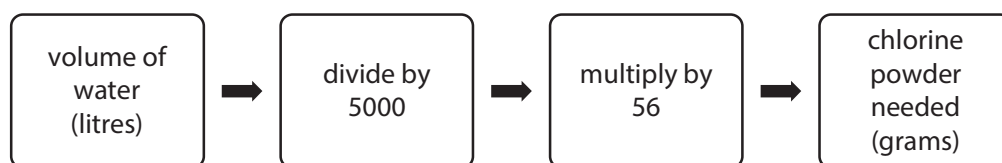**6** Zelda works in a spa.
She takes care of the swimming pool.

The swimming pool is in the shape of a cuboid.
The water level in the swimming pool is 0.3 m below the top of the pool.

Zelda knows 1 m³ = 1000 litres.

She needs to put chlorine powder in the water.

Zelda uses this rule to work out how much chlorine powder she needs.

Work out how much chlorine powder Zelda needs to put in the water.

(6)

grams

(Total for Question 6 is 6 marks)

P 6 8 4 7 6 A 0 9 1 6

7 Tom looks at a map.
1 cm on the map represents 3 km on the ground.

The distance between two cities on the map is 5 cm.
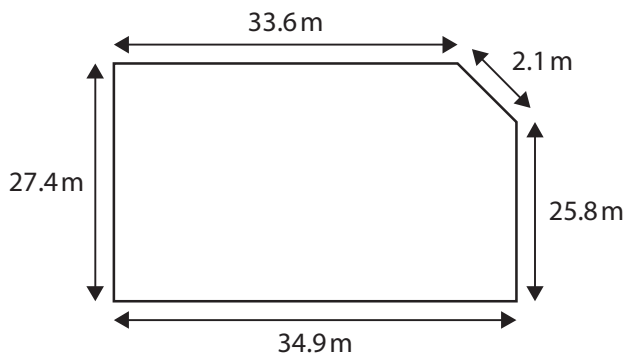
(a) Work out the actual distance between the two cities.

(1)

km

(b) How many lines of symmetry does a square have?

(1)

Here is the front elevation of a building.

33.6 m

2.1 m

27.4 m

25.8 m

34.9 m

(c) What is the greatest height of the building?

(1)

m

(Total for Question 7 is 3 marks)

8 Maya designs a flower bed.
She has this sketch of the flower bed.

180 cm

215 cm

120 cm
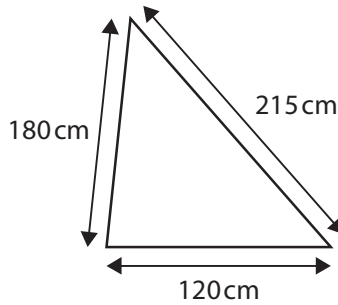
Maya will put an edging along each side of the flower bed.

(a) Work out the total length of the edging Maya needs.

(2)

cm

☑ (b) Show a check of your answer.

(1)

(Total for Question 8 is 3 marks)

Turn over ▶

9 Tim makes sandwiches in a cafe.
The sandwiches can only be sold on the day they are made.

The table shows the number of sandwiches Tim did not sell last week.

day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
number of sandwiches	15	26	9	11	20	16	1

The cost of making each sandwich is £1.95

Tim thinks the mean cost of making the sandwiches he did not sell last week
was more than £25 per day.

Is he correct?
Show why you think this.

(4)

(Total for Question 9 is 4 marks)

10 Colin has this data about the number of treadmills in several gyms.

6	11	5	12	7	15
13	4	8	10	12	14

Colin begins to design a grouped frequency table to show this data.
He will use 3 groups of equal size.

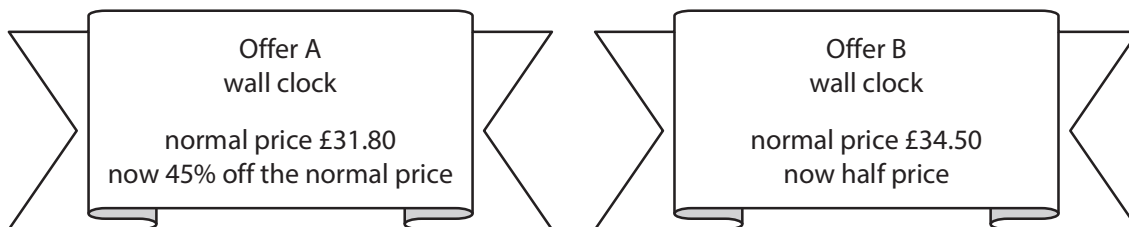Complete the grouped frequency table for Colin.

(3)

number of treadmills	tally	frequency
1 to 5		

(Total for Question 10 is 3 marks)

11 Ashley wants to a buy a wall clock.
She finds these two offers.

Offer A
wall clock

normal price £31.80
now 45% off the normal price

Offer B
wall clock

normal price £34.50
now half price

Ashley thinks she will save less than 50p if she uses offer B rather than offer A.

Is Ashley correct?
Show why you think this.

(5)
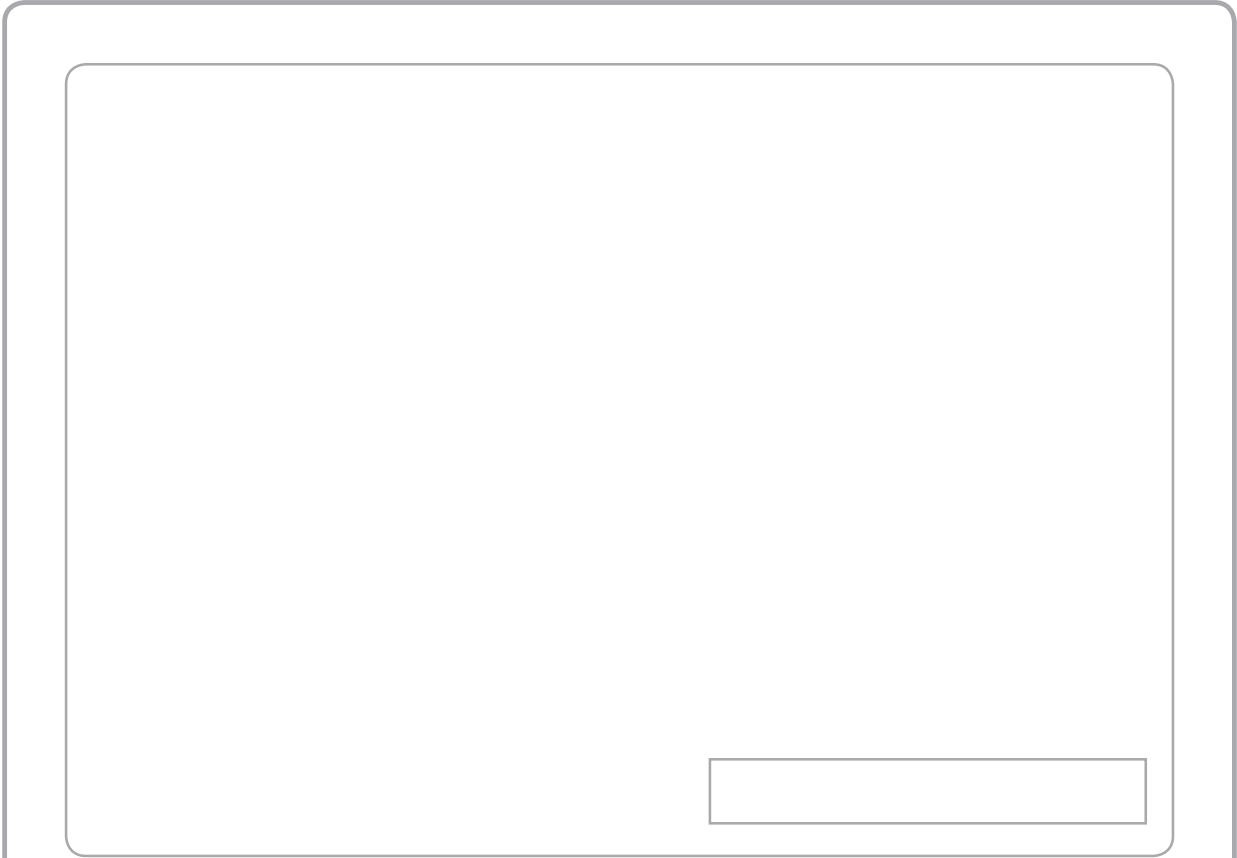
(Total for Question 11 is 5 marks)

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

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