

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

*****Past Paper 6*****

Time: 25 minutes

Paper Reference **PMAT2/N06**

Mathematics

Level 2

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 16.
- 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 ►

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SECTION A

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

- 1 Jai needs to buy 25 lollipops for a party.
He sees this offer.

Lollipops
selection bag
now $\frac{1}{3}$ extra free

Jai knows a normal selection bag contains 18 lollipops.
He thinks he will have enough lollipops if he buys a selection bag with this offer.

Is Jai correct?
Show why you think this.

(3)

(Total for Question 1 is 3 marks)



P 6 8 2 0 2 A 0 3 0 8

2 Here is a formula

$$d = \frac{180(n-2)}{n}$$

Find the value of d when $n = 5$

(3)

(Total for Question 2 is 3 marks)

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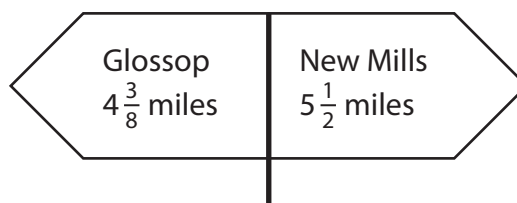
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- 3 Andrew is a member of a walking club.

He sees this sign next to a footpath.



Andrew will walk from this sign along the footpath to Glossop to meet his friend. They will then both walk back along the footpath to the sign and then onto New Mills.

Work out the total distance that Andrew walks.

Give your answer as a mixed number.

You **must** show your working.

(4)

_____ miles

(Total for Question 3 is 4 marks)



P 6 8 2 0 2 A 0 5 0 8

- 4 A box contains bags of crisps.
Each bag of crisps is either beef flavour, prawn flavour or cheese flavour.

Beth is going to take at random a bag of crisps from the box.

The table shows each of the probabilities that the flavour will be beef or will be cheese.

flavour	beef	prawn	cheese
probability	0.4		0.35

- (a) Work out the probability that Beth takes a bag of prawn flavour crisps.

(2)



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200 workers are asked about the favourite drink they have at work.
Some of the results are shown in the table below.

(b) Complete the two-way table. (2)

		Favourite drink			
		water	tea	coffee	total
Workers	office			8	88
	warehouse	10	64		112
	total	27		46	200

(c) What is the probability that a worker choosing coffee works in the office?
Give your answer as a fraction in its simplest form. (2)

(Total for Question 4 is 6 marks)

TOTAL FOR SECTION A IS 16 MARKS



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