


Write your name here						
Surname	Other names					
Pearson Edexcel Functional Skills	Centre Number <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> </table>					
Candidate Number <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> </table>						
<h1 style="margin: 0;">Mathematics</h1> <h2 style="margin: 0;">Level 1</h2> 						
9 – 13 January 2017 Time: 1 hour 30 minutes	Paper Reference FSM01/01					
You must have: Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, compasses.	Total Marks 					

My signature confirms that I will not discuss the content of the test with anyone until the end of the 5 day test window.

Signature: _____

Instructions

- Use a **black** 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.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- **Calculators may be used.**

Information

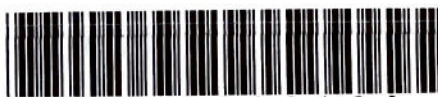
- The total mark for this paper is 48.
- The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- **You must show clearly how you get your answers because marks will be awarded for your working out.**
- **Check your working and your answers at each stage.**
- **This sign shows where marks will be awarded for showing your check.**



Advice

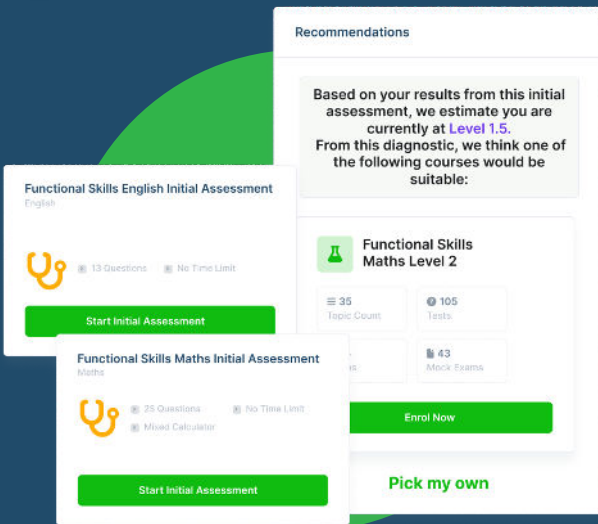
- Read each question carefully before you start to answer it.
- Keep an eye on the time.

Turn over ►



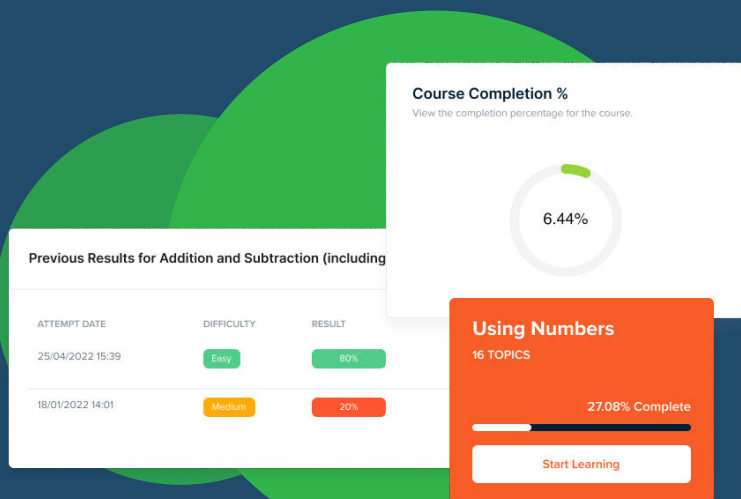
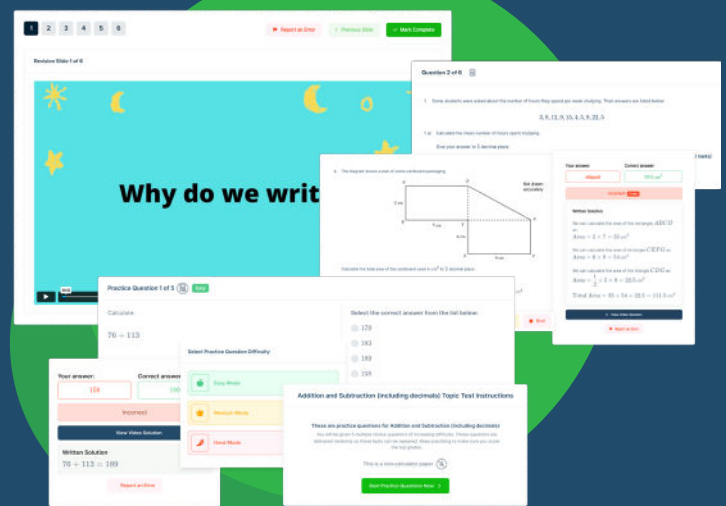


FUNCTIONAL SKILLS ONLINE COURSES



- ✓ Your answers are analysed to determine your Current Level
- ✓ Suggested courses for you to enrol on based on your calculated level
- ✓ Always know the level you are currently working at
- ✓ Determine when you are ready to sit your exam

- ✓ Explainer videos on every topic
- ✓ Quick-fire style multiple choice questions
- ✓ Test your knowledge with exam-style questions
- ✓ Written solutions for all questions



- ✓ See your progress through as you progress through each topic area
- ✓ Get your average scores for practice questions, topic tests and mock exams
- ✓ View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Or visit
passfunctionalskills.co.uk

SECTION A: Birdwatching**Answer all questions in this section.****Write your answers in the spaces provided.**

- 1 Liz wants to feed the birds in her garden.
She wants to buy 2 bird feeders and 3 bags of bird seed.

Each bird feeder costs £6.95A bag of bird seed costs £3.10

(a) Work out the total cost for Liz.

(3)

Use the box below to show clearly how you get your answer.

$$2 \times \pounds 6.95 = \pounds 13.90$$

$$3 \times \pounds 3.10 = \pounds 9.30$$

$$\pounds 13.90 + \pounds 9.30 = \pounds 23.20.$$

Liz and her family want to join a bird club for a year.

Bird Club Membership

Adult £4 per month
 Child £3 per month

Bird Club Family Membership

1 or 2 adults + up to 3 children
£126 per year

Liz and her husband are adults.

Andy is their only child.

They want to choose the cheapest membership deal for their family.

(b) Which membership deal should they choose?

Show a check of your working.

(4)

Use the box below to show clearly how you get your answer.

2 adults
 1 child
 $2 \times 4 = \pounds 8$ $1 \times 3 = \pounds 3$
 $\pounds 8 + \pounds 3 = \pounds 11$ per month.
 $\pounds 11 \times 12 = \pounds 132$ per year $> \pounds 126$.
 Family membership is cheaper.

Write your check in the box below.



~~£132~~ $\pounds 132 \div 12 = \pounds 11$.

(Total for Question 1 is 7 marks)

2 Matt is building a bird box from wood.

The side of the bird box is shown below.

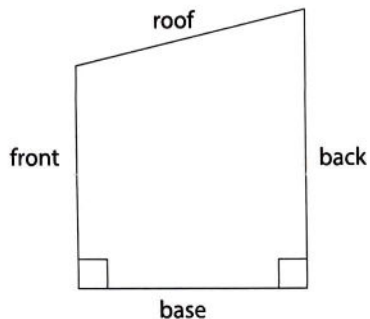


Diagram **not** accurately drawn

The length of the base is 120 mm.

The height of the front is 150 mm.

The height of the back is 200 mm.

(a) Make an accurate drawing of the side of the bird box for Matt.

(3)

Use the space opposite for your drawing.

The base has been drawn for you.

(b) Measure the length of the roof.
Give the units with your answer.

(1)

Write your answer in the box below.

130 mm

DO NOT WRITE IN THIS AREA

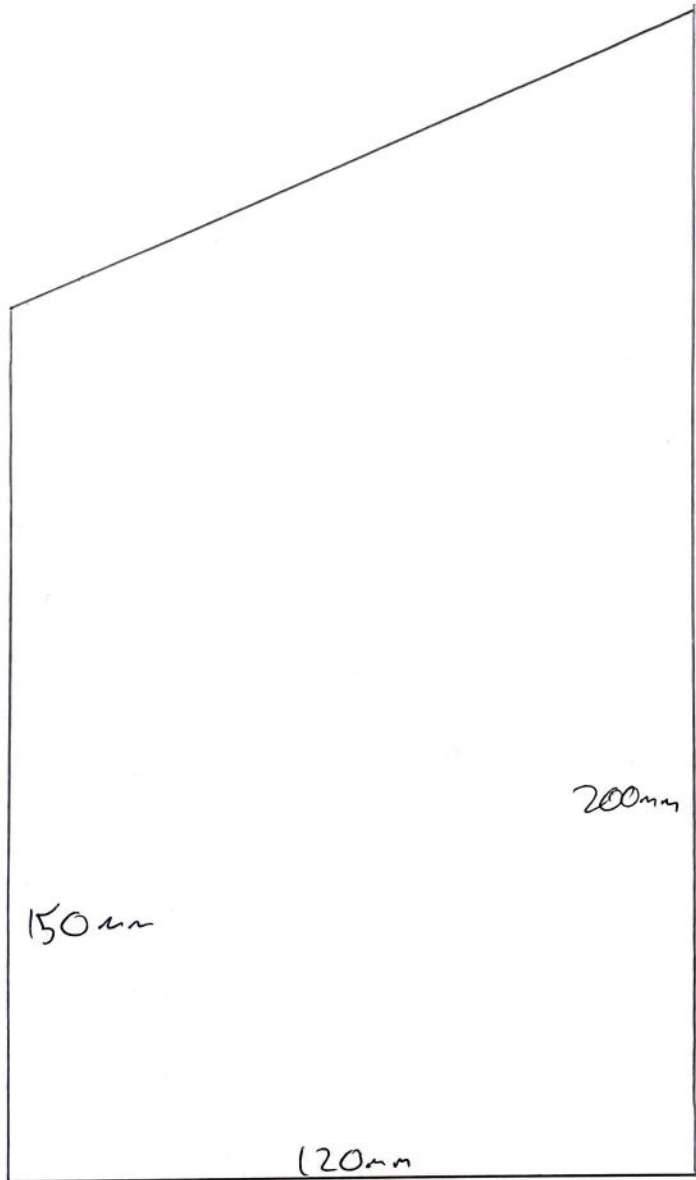
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

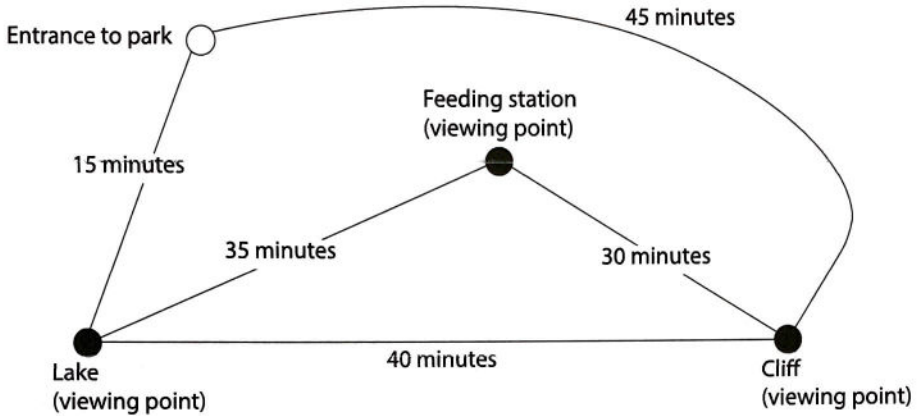
DO NOT WRITE IN THIS AREA



(Total for Question 2 is 4 marks)

3 Liz is going to spend the day birdwatching at a park.

She has this plan of the paths in the park.
The plan shows the time it takes to walk along each path.



Liz arrives at the entrance to the park at 9 am.

She will walk in the park without going back along a path she has already used.

She will spend 1 hour at each of the viewing points.

Liz thinks she will be back at the entrance by 2 pm.

Is Liz correct?
Show why you think this.

(5)

Arrive Lake 09:15 ^{15 min}
 Leave Lake 10:15 ^{1h}
 Arrive Feeding 10:50 ^{35 min}
 Leave Feeding 11:50 ^{1h}
 Arrive Cliff 12:20 ^{30 min}
 Leave Cliff 13:20 ^{45 min}
 Arrive Entrance 14:05
 which is 5 minutes after 2pm.
 Liz is not correct.

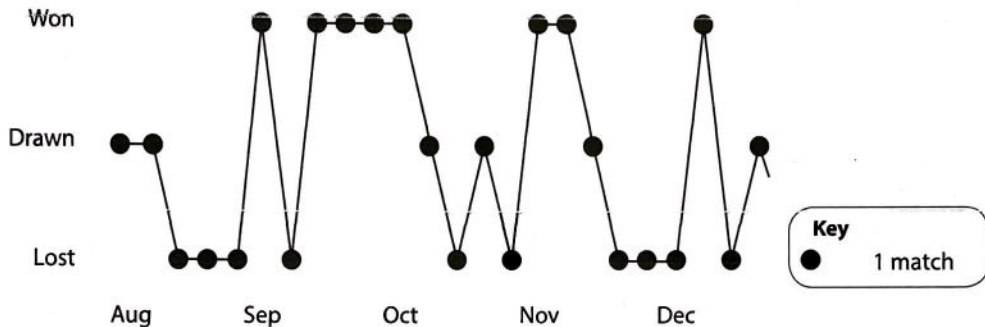
SECTION B: Lowton United Football Club

Answer all questions in this section.

Write your answers in the spaces provided.

4 Lowton United is a football club.

The diagram shows some information about the matches Lowton United played in the league competition from August to December.



A team gets

- 3 points for each match won
- 1 point for each match drawn
- 0 points for each match lost.

(a) How many points in total did Lowton United get from the beginning of August to the end of December? (3)

Use the box below to show clearly how you get your answer.

8 wins 6 draws 10 losses
 $8 \times 3 + 6 \times 1 + 10 \times 0 = 30$ points.

Lowton United is taking part in a cup competition.

There are 8 teams including Lowton United in the competition.

To decide who will play who in the next round, the team names are chosen at random from a bag.

Only one team is chosen at a time.

(b) What is the likelihood that Lowton United is chosen from the bag first?

(1)

Tick ✓ a box to show your answer.

impossible

unlikely

even chance

likely

certain

(Total for Question 4 is 4 marks)

- 5 Paulo manages the ticket sales for Lowton United. He is writing a report about ticket sales.

He wants to draw a graph to show the ticket sales for the last 6 matches.

Ticket sales					
match 1	match 2	match 3	match 4	match 5	match 6
6200	5600	6400	6800	7200	8300

Paulo starts to draw a graph to show this information.

(a) Complete the graph for Paulo.

(3)

Use the graph paper and the scale on the opposite page.

Paulo wants to write a comment in the report about the ticket sales.

(b) Write a comment for the report.

(1)

Write your comment in the box below.

Attendance is generally increasing.

DO NOT WRITE IN THIS AREA

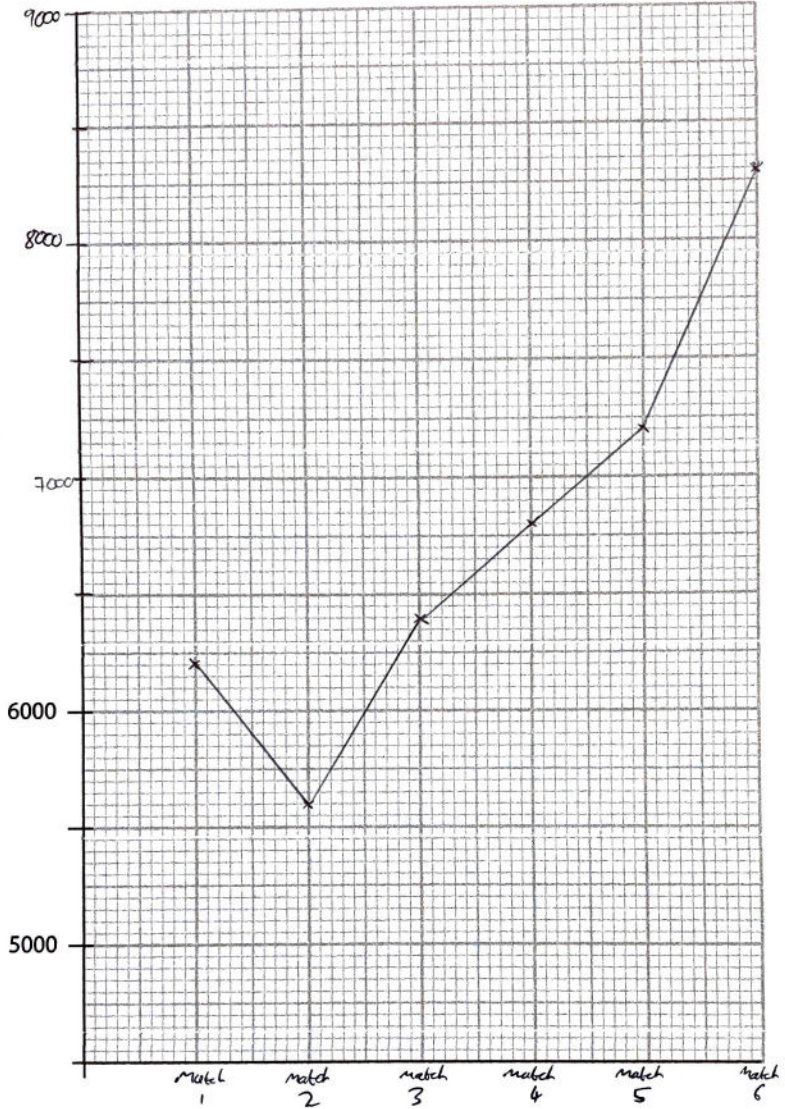
DO NOT WRITE IN THIS AREA

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 5 is 4 marks)

- 6 The total ticket sales for each of the last 6 matches are shown in the table below.

Ticket sales					
match 1	match 2	match 3	match 4	match 5	match 6
6200	5600	6400	6800	7200	8300

Paulo thinks the average ticket sales for these matches is over 6500

- (a) Is Paulo correct?
Show a check of your working.

(4)

Use the box below to show clearly how you get your answer.

$$6200 + 5600 + 6400 + 6800 + 7200 + 8300 = 40500 .$$

$$40500 \div 6 = 6750 > 6500 .$$

Use the box below to show your check.



$$6750 \times 6 = 40500$$

The table below shows the prices and the ticket sales for the last match.

	Price	Ticket sales
Adult	<u>£22</u>	<u>4600</u>
Juniors (under 16)	<u>£8</u>	<u>3700</u>

The football club wants the income from ticket sales for the last match and the next match to be the same.

For the next match the club is going to

- give free tickets to juniors
- charge £25 for each adult ticket.

(b) How many adult tickets does the club need to sell to keep the income from ticket sales the same? (4)

Use the box below to show clearly how you get your answer.

$$\begin{aligned} £22 \times 4600 + £8 \times 3700 &= \\ £101200 + £29600 &= \\ £130800 &. \end{aligned}$$

$$£130800 \div 25 = 5232$$

5232 adult tickets.

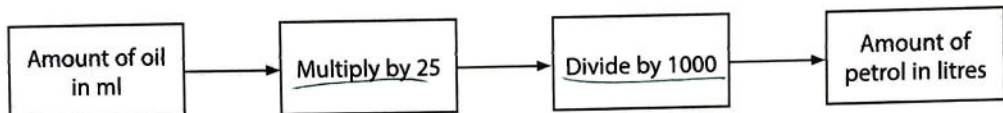
(Total for Question 6 is 8 marks)

SECTION C: Lawn care

Answer all questions in this section.

Write your answers in the spaces provided.

- 7 Jane needs to mix petrol and oil for her lawn mower.
She finds these instructions for mixing the petrol and oil.



Jane uses 100 ml of oil.

- (a) How much petrol should Jane use?
Show a check of your working.

(3)

Use the box below to show clearly how you get your answer.

$$100 \times 25 = 2500$$
$$2500 \div 1000 = 2.5 \text{ litres.}$$

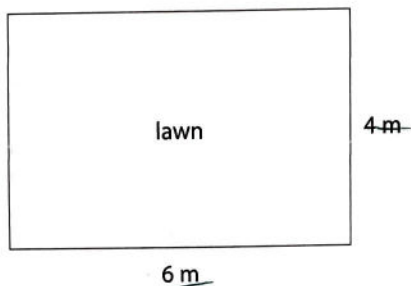
Use the box below to show your check.



$$2.5 \times 1000 = 2500$$

Jane has a lawn in front of her house.

The lawn is in the shape of a rectangle 6 m by 4 m.



Jane buys one box of lawn feed.
One box is enough for 100 m^2 of lawn.

Jane says

My lawn needs $\frac{1}{4}$ of this box.

(b) Will $\frac{1}{4}$ of this box be enough for the lawn?

(4)

Use the box below to show clearly how you get your answer.

$$6 \times 4 = 24 \text{ m}^2 .$$

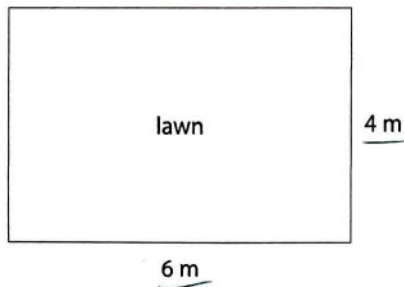
$$100 \times \frac{1}{4} = 25 \text{ m}^2 .$$

$$24 < 25 .$$

$\frac{1}{4}$ of the box is enough.

(Total for Question 7 is 7 marks)

- 8 Jane wants to put edging around her lawn.



The edging is sold in 50 cm strips.
The edging strips cost £3 each.

Jane wants to know how much it will cost to put edging strips around the lawn.

Find the total cost of the edging strips for Jane.

(5)

$$6 + 4 + 6 + 4 = 20 \text{ m.}$$

$$50 \text{ cm} = 0.5 \text{ m.}$$

$$20 \div 0.5 = 40 \text{ strips.}$$

$$40 \times \text{£}3 = \text{£}120$$

9 Jane wants to buy a barbecue.

She sees this offer.

Barbecue £150
Pay 20% deposit.

(a) Work out 20% of £150 for Jane.

(2)

Use the box below to show clearly how you get your answer.

$$0.2 \times \pounds 150 = \pounds 30.$$

Jane also wants to buy some garden furniture.

The garden furniture costs £800

She can pay for the garden furniture in 6 equal monthly payments.

Jane thinks she will need to pay £140 each month.

(b) Is Jane correct?

Show why you think this.

(2)

Use the box below to show clearly how you get your answer.

$$800 \div 6 = \text{£}133.33$$

$$\neq \text{£}140$$

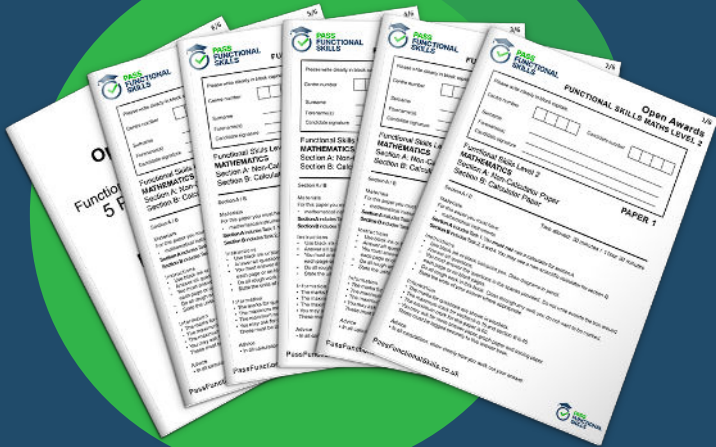
so Jane is not
Correct.

(Total for Question 9 is 4 marks)

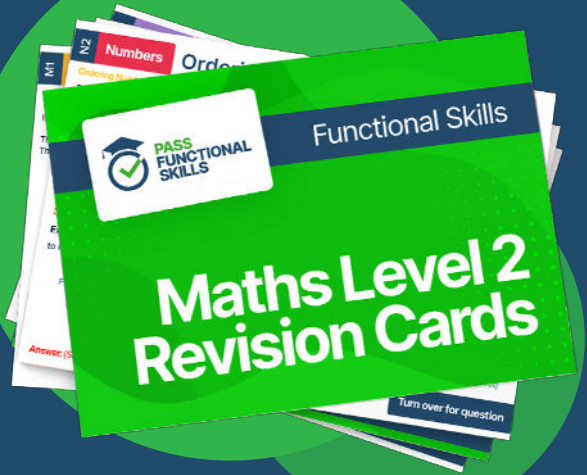
TOTAL FOR PAPER IS 48 MARKS



PASS
FUNCTIONAL
SKILLS



Functional Skills Maths
Level 2 Practice Papers



Functional Skills Maths
Level 2 Revision Cards



Functional Skills English Level 2
Practice Papers & Revision Cards



Functional Skills Maths
Level 2 Pocket Revision Guide

Or visit

passfunctionalskills.co.uk