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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 2

Time: 25 minutes	Paper Reference **PMAT1/N02**

Mathematics

Level 1
Section A (Non-Calculator)

You must have:	Total Marks
Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.	

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 your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

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 ▶

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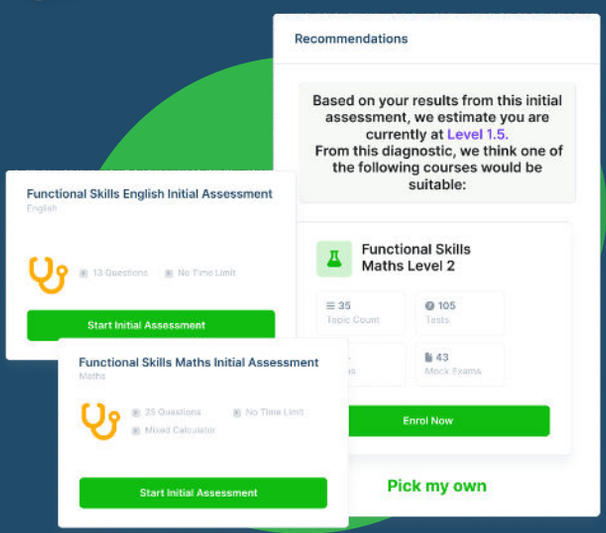
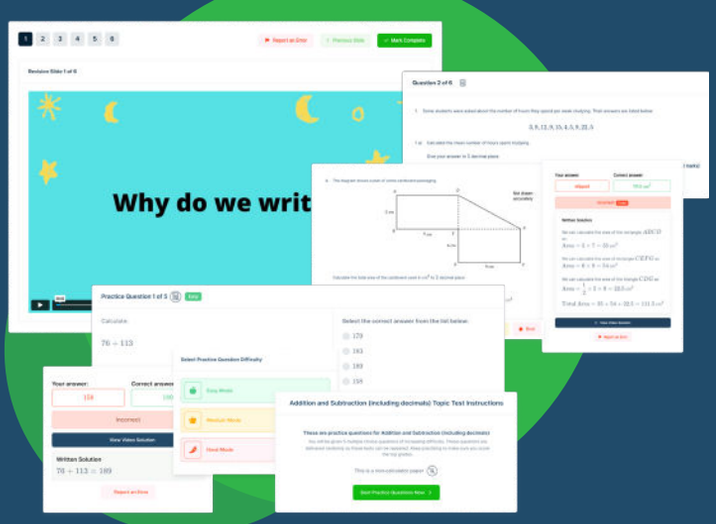
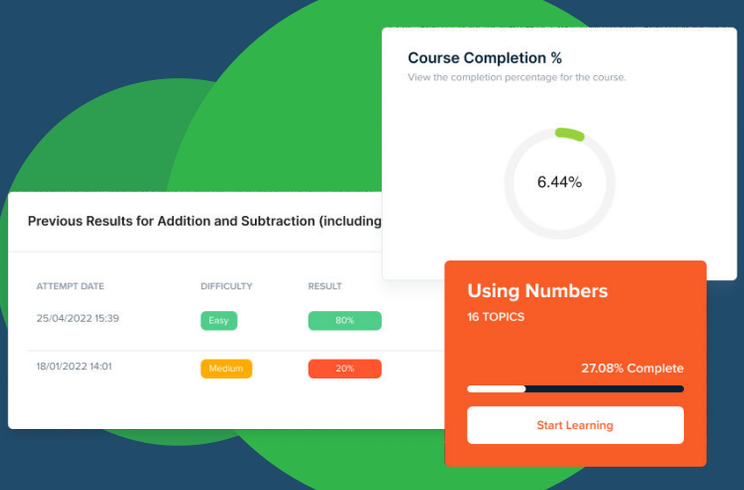
FUNCTIONAL SKILLS ONLINE COURSES



- 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 mutiple 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

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SECTION A

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

1 A charity wants to collect eighty four thousand pounds.

A charity worker says

> We have collected $\frac{3}{4}$ of the eighty four thousand pounds.

How much money has the charity collected?
You **must** show your working.

(3)

$$4\overline{)84} = 21$$

$21 \times 3 = 63$

$\frac{3}{4}$ of $84000 = 63000$

£ 63000

(Total for Question 1 is 3 marks)

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2 (a) Work out $28 - 20 \div 4$

(1)

$28 - 20 \div 4 = 28 - 5 = 23$

23

(b) Work out 6^2

(1)

$6^2 = 6 \times 6$

36

(c) Work out $-25 - 14$

(1)

-39

(Total for Question 2 is 3 marks)

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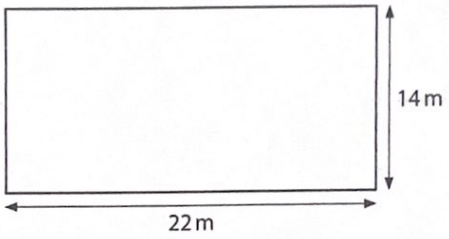
3 Zeenat wants to buy edging to put along the edges of her lawn.
She has this sketch of the lawn.

The lawn is in the shape of a rectangle.



Each metre of edging costs £5
Zeenat thinks the total cost of the edging will be £360

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

(3)

Perimeter = 22 + 22 + 14 + 14 = 72 m

72 × 5 = £360

Zeenat is correct.

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

(1)

360 ÷ 72 = 5

(Total for Question 3 is 4 marks)

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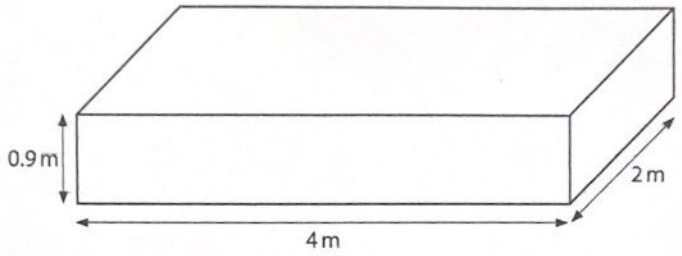
4 Gareth wants to know the amount of water needed to fill his pond.

The pond is in the shape of a cuboid as shown.



1 m^3 is 1000 litres.

Calculate the amount of water needed to fill the pond.
Give your answer in litres.

(4)

$0 \cdot 9 \times 4 \times 2 = 0 \cdot 9 \times 8 = 7 \cdot 2\ m^3$

$7 \cdot 2 \times 1000 = 7200$ litres

7200 litres

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS

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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 2

Time: 1 hour 30 minutes | Paper Reference **PMAT1/C02**

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.
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- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have 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

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- Check your answers if you have time at the end.

Turn over ▶

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SECTION B

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

1 Here are 7 numbers.

3.51 3 1.1 4 4.5 2.5 2.81

Calculate the mean of these 7 numbers.

(3)

$3.51 + 3 + 1.1 + 4 + 4.5 + 2.5 + 2.81$

$= 21.42$

mean $= 21.42 \div 7 = 3.06$

3.06

(Total for Question 1 is 3 marks)

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2 In a factory the working week is from Monday to Friday.
There are 46 working weeks in a working year.

(a) Calculate the number of days in one working year.

(1)

$46 \times 5 = 230$

230

Nita works at the factory.
She will get a bonus if her absence rate is 2% or less.

This rule is used to calculate her absence rate.

number of days absent → ÷ number of days in the working year → × 100 → absence rate (%)

Nita was absent from work for 9 days in the last working year.

(b) Does Nita get a bonus?
Show why you think this.

(3)

$9 \div 230 \times 100 = 3.91\ \%$

NO

(Total for Question 2 is 4 marks)

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3 Tina is getting broadband for her new flat.

She finds this deal.

Broadband deal

router normal price £39.99

15% discount on the normal router price

18 months contract at £56.99 each month

Tina buys the router and the 18 months contract.

Work out the total cost of this deal for Tina.

(5)

router = 0·85 x 39·99 = £33·99

contract = 18 x 56·99 = £1025·82

Total cost = 33·99 + 1025·82 = £1059·81

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£ 1059·81

(Total for Question 3 is 5 marks)

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4 Varney wants to cover a wall with a sealing mixture.
She reads this information about how to make the mixture.

Mix water with concentrate in the ratio 5 : 1

Varney wants to make 9 litres of the mixture.

How much water and how much concentrate does Varney need to make 9 litres of the mixture?

(3)

$5 + 1 = 6$

$9 \div 6 = 1.5$ (concentrate)

$5 \times 1.5 = 7.5$ (water

water	7.5	litres

concentrate	1.5	litres

(Total for Question 4 is 3 marks)

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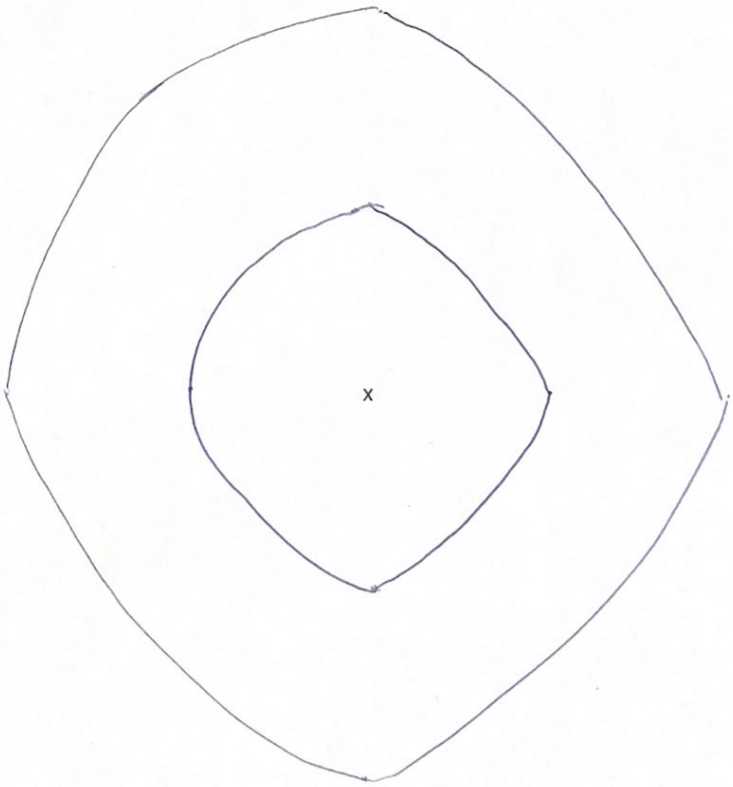
5 Joseph is making a template for craftwork.
He makes the template using two circles.

The two circles have the same centre.
The outer circle has radius 6 cm.

The radius of the inner circle is $\frac{1}{2}$ the radius of the outer circle.

Draw the template for Joseph in the space below.
The centre (x) is drawn for you.

(3)



(Total for Question 5 is 3 marks)

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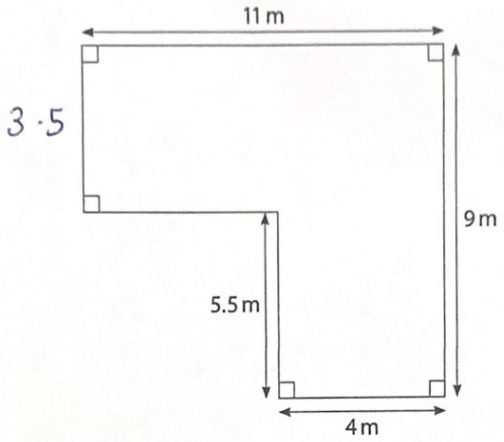
6 Harpreet wants to put tiles on the ceiling of a room.
He has this sketch of the ceiling.



Harpreet knows one pack of ceiling tiles

- covers an area of 3.24 m²
- costs £34.95

Ceiling tiles can be cut and joined.

Calculate the total cost of the packs of ceiling tiles Harpreet has to buy.

(6)

$9 - 5.5 = 3.5$ m

$11 \times 3.5 = 38.5$ m²

$5.5 \times 4 = 22$ m²

Area $= 38.5 + 22 = 60.5$ m²

$60.5 \div 3.24 = 18.672\ldots$

So 19 packs needed

$19 \times 34.95 = £664.05$

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£ 664.05

(Total for Question 6 is 6 marks)

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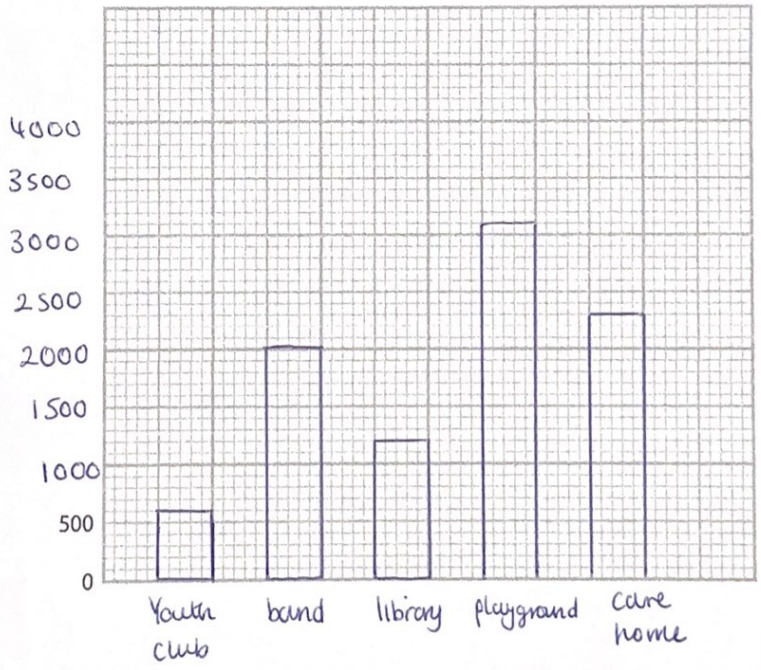
7 Grace works at a supermarket.
The supermarket gives money to local groups.

Grace wants to show customers the amount of money given to each local group.
She has this information.

local group	amount of money (£)
youth club	600
band	2000
library	1200
playgroup	3100
care home	2300

Draw a bar chart for this information.
Use 1 cm to represent £500 on the money axis.

(3)



(Total for Question 7 is 3 marks)

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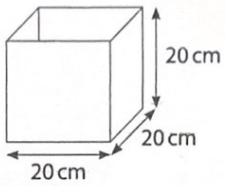
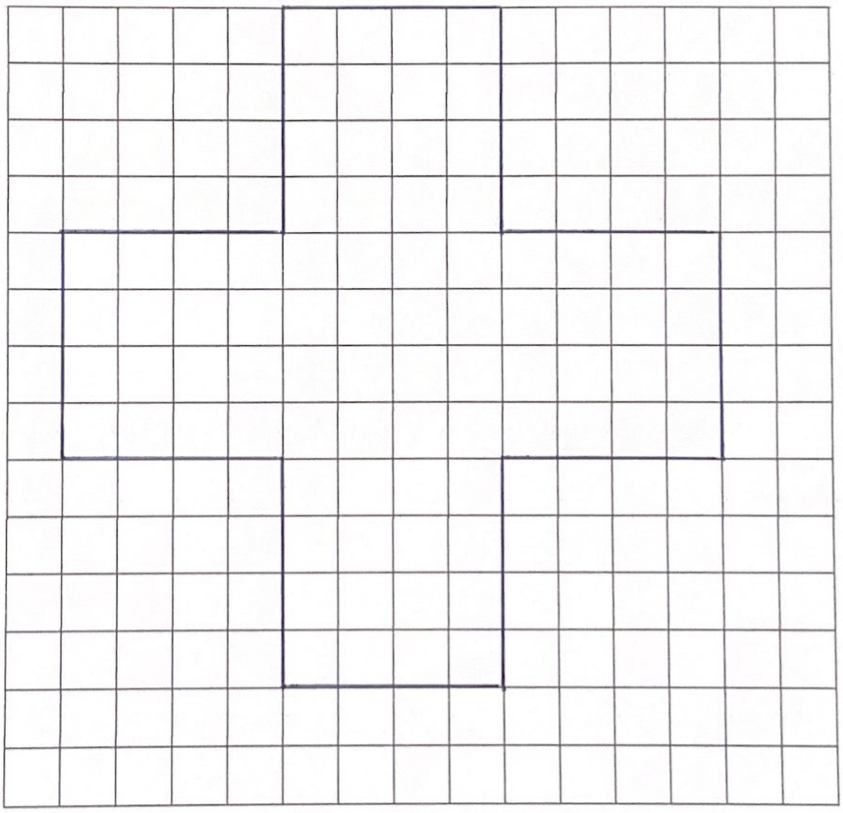
8 Jakob is a florist.
He designs an open box for flowers to stand in.

The box is in the shape of a cube with a side length 20 cm.



Draw a net of the open box.
Use the grid below to draw your net.

(3)



Key
1 square length on the grid represents 5 cm on the cube

(Total for Question 8 is 3 marks)

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9 Sandro is making cottage pie.

He finds this list of ingredients.

cottage pie
serves 8 people
1500 grams of meat
250 ml stock
4 tbsp tomato paste
2 kilograms of potatoes

Sandro wants to make cottage pie for 12 people.
He wants to know how much meat to use.

(a) Calculate the amount of meat Sandro needs to use.

(3)

$12 \div 8 = 1.5$

$1500 \times 1.5 = 2250$

2250 grams

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

(1)

$2250 \div 1.5 = 1500$

(Total for Question 9 is 4 marks)

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10 Jenny is a science technician.
She carries out an experiment.

Jenny records the temperatures from her experiment each day.

day	1	2	3	4	5	6	7
temperature (°C)	65.5	65.2	66.5	69.0	70.0	71.8	68.2

(a) Calculate the range of these temperatures.

(2)

$71.8 - 65.2 = 6.6$

6.6 °C

Jenny has included the range in her report.
She must write another comment about these temperatures in her report.

(b) Write a comment about the temperatures.

(1)

The median temperature is 68.2

(Total for Question 10 is 3 marks)

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11 Clare sells houses.
She has this information about the purchase prices of some houses.

house reference	purchase price (£)
A	123 950
B	249 000
C	94 500
D	389 000
E	121 000
F	149 000

(a) Write in order the purchase prices of these houses.
Start with the lowest price.

(1)

94500
121 000
123 950
149 000
249 000
389 000

People pay stamp duty on houses with a purchase price of more than £125 000

(b) Tick the purchase prices that are greater than £125 000

(1)

purchase price (£)	
123 950	
249 000	✓
94 500	
389 000	✓
121 000	
149 000	✓

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Alex buys a house.
He must pay £255 000 for the house.
He must also pay 5% of the purchase price in stamp duty.

(c) Calculate the total amount Alex must pay.

(3)

105 % = 1·05

255000 × 1·05 = £267750

£ 267750

(Total for Question 11 is 5 marks)

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

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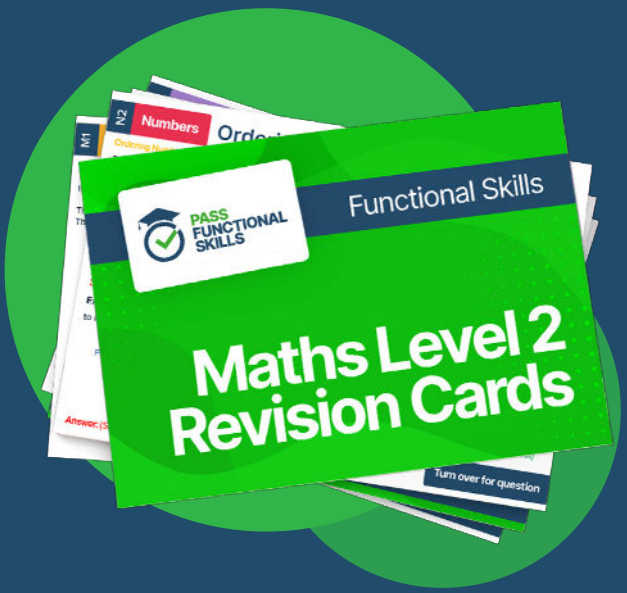

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