

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 4		
Time: 25 minutes	Paper Reference PMAT1/N04	
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 ►

P67281A

©2020 Pearson Education Ltd.

1/1



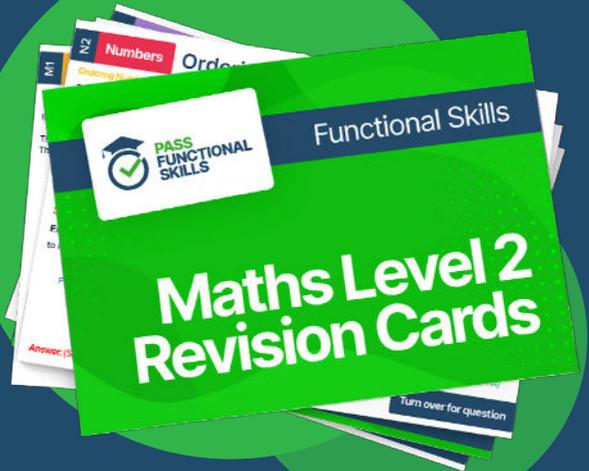

Pearson



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

SECTION A

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

- 1 Su has a new job.

She wants to compare the cost of travelling to work by train with the cost of travelling to work by car.

	daily cost	weekly cost
train	£11.50	
car		£65

Su travels to work 5 days each week.

She knows that it will be more expensive to travel to work by car.

How much more expensive is travelling to work by car each week?

(3)

Train $11.50 \times 5 = £57.50$

Difference $65 - 57.50 = £7.50$

£ 7.50

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

2

Use a common fraction to work out an estimate for 73% of 120
You **must** show your working.

(3)

$$73\% \approx \frac{3}{4}$$

$$\frac{3}{4} \text{ of } 120 \rightarrow$$


$$120 \div 4 = 30$$

$$30 \times 3 = 90$$

90

(Total for Question 2 is 3 marks)



P 6 7 2 8 1 A 0 3 0 8

3

Turn over ▶

3 Evie needs to make 200 scones.

Her recipe uses 150ml of milk to make 10 scones.

How many litres of milk does Evie need for 200 scones?

(4)

$$\begin{array}{l} 0.15 \text{ litres} = 10 \text{ scones} \\ 3 \text{ litres} = 200 \text{ scones} \end{array} \quad \left. \vphantom{\begin{array}{l} 0.15 \text{ litres} = 10 \text{ scones} \\ 3 \text{ litres} = 200 \text{ scones} \end{array}} \right\} \times 20 \quad (200 \div 10 =)$$

3 litres

(Total for Question 3 is 4 marks)

DO NOT WRITE IN THIS AREA



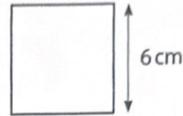
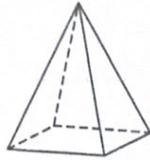
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

4 Fred makes solid pyramids.

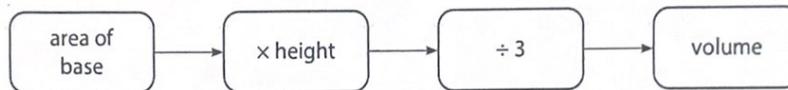
The height of each pyramid is 9 cm.

The base of each pyramid is in the shape of a square with side length 6 cm.



Fred needs to know the volume of one pyramid.

He uses this formula to work out the volume of one pyramid.



Fred thinks that the volume of one pyramid is more than 100 cm^3

Is Fred correct?
Show why you think this.

(4)

$$\text{area of base} = 6 \times 6 = 36$$

$$36 \times 9 = 324$$

$$324 \div 3 = 108$$

Yes, the volume is 108 cm^3

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS



Please check the examination details below before entering your candidate information

Candidate surname	Other names	
Pearson Edexcel Functional Skills	Centre Number	Candidate Number
	<input type="text"/>	<input type="text"/>
Past Paper 4		
Time: 1 hour 30 minutes	Paper Reference PMAT1/C04	
Mathematics		
Level 1		
Section B (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.
- Diagram 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 ►

P67282A

©2020 Pearson Education Ltd.

1/1/1




Pearson

SECTION B

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

- 1 Mia has a job interview at 9:20 am.

When Mia wakes up she will need

- $1\frac{3}{4}$ hours to get ready
- 25 minutes to walk to the interview.

What is the latest time Mia needs to wake up?

$$1\frac{3}{4} \text{ hours } \xrightarrow{\times 60} 1 \text{ hour and } 45 \text{ minutes}^{(3)}$$

$$1 \text{ hour } 45 \text{ minutes} + 25 \text{ minutes} =$$

$$2 \text{ hours } 10 \text{ minutes}$$

$$9:20 \text{ am} - 2 \text{ hours } 10 \text{ minutes} =$$

$$\boxed{7:10}$$

7:10 am

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

2 Jonathan is writing a report about recycling in the local town.

In 2019

- there were 2170 people living in the town
- each person in the town recycled an average of 395.4 kg of waste.

Jonathan knows that 1 tonne = 1000 kg.

(a) How many tonnes of waste were recycled in the town in total in 2019?
Give your answer correct to 2 decimal places.

(3)

$$395.4 \text{ kg} \div 1000 = 0.3954 \text{ tonnes}$$

$$2170 \times 0.3954 = 858.018$$

↙
rounds
up

858.02 tonnes



(b) Use estimation to show a check of your answer.

(1)

$$2000 \times 400 \div 1000 = 800$$

The answer is reasonable for the figures given

(Total for Question 2 is 4 marks)



P 6 7 2 8 2 A 0 3 1 6

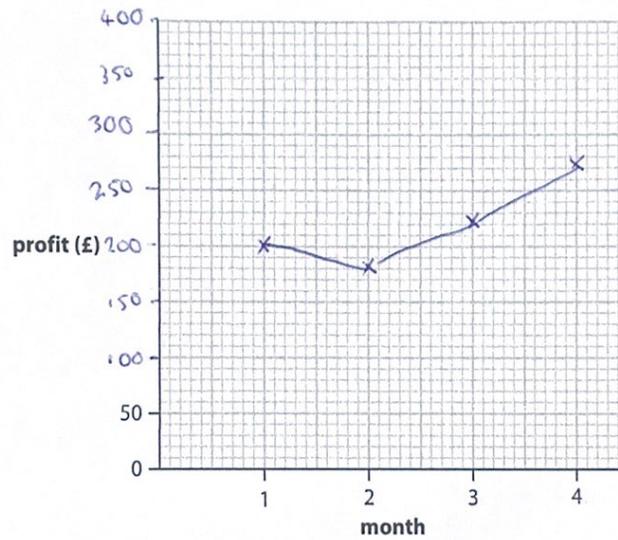
3 Layla starts a business making and selling scarves.

The table shows information about the profit she makes in the first four months.

month	1	2	3	4
profit (£)	200	180	220	275

(a) Draw a graph for this information on the grid below.

(2)



DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Layla gives

- 120 scarves to Shop A to sell
- 152 scarves to Shop B to sell.

Shop A sold 15% of its 120 scarves.

Shop B sold an eighth of its 152 scarves.

- (b) Which shop sells the most scarves?
You **must** show your working.

(3)

$$15\% = 0.15$$

$$0.15 \times 120 = 18$$

$$\frac{1}{8} \text{ of } 152 = 152 \div 8 = 19$$

19 is larger than 18

shop B

(Total for Question 3 is 5 marks)



- 4 On Monday Selma has £202.69 in her bank account.

Selma needs to pay a bill of £465.20 from the account on Wednesday.

She will pay some money into the account on Tuesday so that there is

- enough money in the account to pay the bill
- £10 left in the account after the bill has been paid.

No other payments occur.

How much money does Selma pay into the account on Tuesday?

(3)

$$465.20 + 10 = 475.20$$

$$475.20 - 202.69 = 272.51$$

£ 272.51

(Total for Question 4 is 3 marks)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

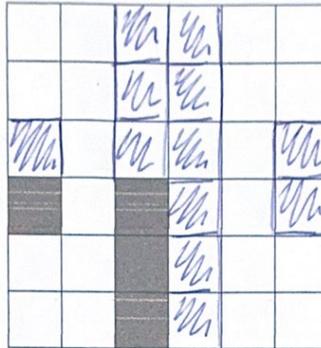
5 Kelly is designing a pattern on a grid.

The pattern must

- cover all the grid
- use only black squares and white squares
- have exactly 2 lines of symmetry.

(a) Complete the pattern on the grid.

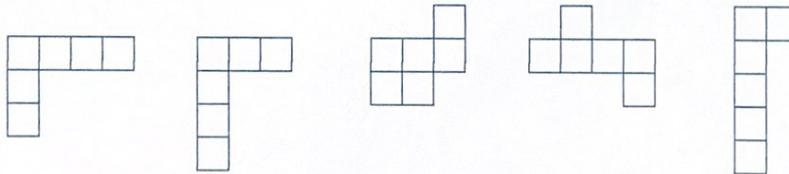
(2)



(b) Which **one** of these nets will make a cube?

Tick a net to show your answer.

(1)



A []

B []

C []

D

E []

(Total for Question 5 is 3 marks)



- 6 Carl is running a charity race.
Here is a map for part of the route.

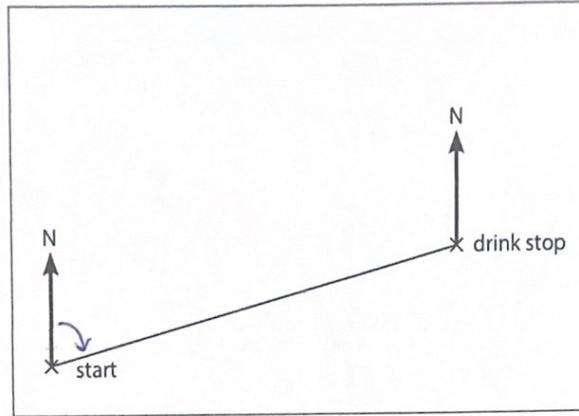


Diagram drawn accurately

Carl wants to know the bearing of the route.

- (a) Find the bearing of the drink stop from the start.

(1)

75

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Carl is running the race as part of a team.

The table shows the running times for all the team members.

team member	Brenda	Carl	Dillon	Ebony	Fred
running time (minutes)	47	42	53	40	38

(b) Work out the range of the running times.

(2)

$$\text{Range: } 53 - 38 = 15$$

15 minutes

The same team ran the race last year.

The mean running time for the runners in the team last year was 45 minutes.

Carl thinks that the mean running time for the runners in the team this year is less than 45 minutes.

(c) Is Carl correct?
Show why you think this.

(3)

$$47 + 42 + 53 + 40 + 38 = 220$$

$$220 \div 5 = 44$$

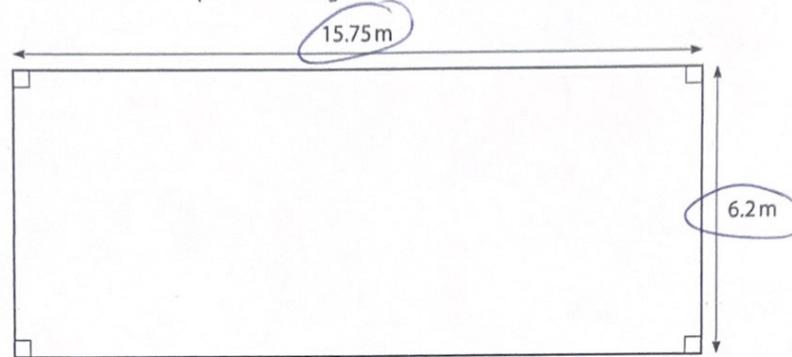
Yes, he is correct

(Total for Question 6 is 6 marks)



7 Jasmine has an allotment.

The allotment is in the shape of a rectangle.



Jasmine wants to put a fence around the edge of the allotment.

There needs to be a gap in the fencing of 1.5m for a gate.

Fencing is sold in whole metres.

Work out the length of fencing Jasmine needs to buy.

$$\begin{aligned} \text{Perimeter} &= 15.75 + 15.75 + 6.2 + 6.2 && (3) \\ &= 43.9 \end{aligned}$$

$$43.9 - 1.5 = 42.4 \text{ m}$$

42.4 m

(Total for Question 7 is 3 marks)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

8 Samir is planning a new kitchen.

He has this diagram of one of the walls.

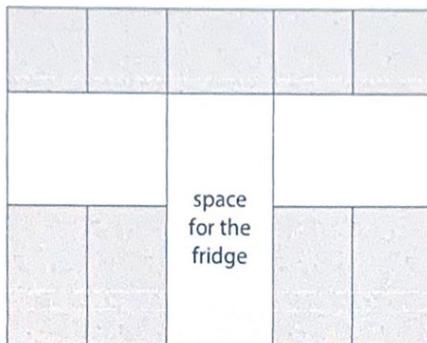


Diagram drawn accurately

Key 1 cm on the diagram represents 40 cm on the wall

 kitchen cabinet

The diagram shows the space for a fridge.

Samir has these fridges to choose from.

fridge	A	B	C	D
width	54.5 cm	54.5 cm	69.5 cm	91 cm
height	182 cm	177.5 cm	178.8 cm	179.5 cm

Samir wants to buy the largest fridge possible to fit in this space.

Which fridge should Samir choose?

Show why you think this.

2 cm wide $\rightarrow 2 \times 40 = 80$ cm

4.5 cm tall $\rightarrow 4.5 \times 40 = 180$ cm

(3)

Fridge C.

(Total for Question 8 is 3 marks)

DO NOT WRITE IN THIS AREA



- 9 Rita wants to buy an oak shelf from a shop.

The normal price of the shelf is £170
The shop has this offer.

45% off the normal price

Rita will use this offer.
She has a budget of £100 to buy the shelf.

- (a) Can Rita buy the shelf?

(3)

$$100\% - 45\% = 55\% = 0.55$$

$$170 \times 0.55 = 93.50$$

Yes because (£93.50 <) than £100



- (b) Use a reverse method to show a check of your answer.

(1)

$$93.50 \div 0.55 = 170$$

$$1 - 0.55 = 0.45$$

(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

10 Tom rolls an ordinary fair dice.



(a) Mark with a cross (X) on the scale the probability that Tom rolls an even number. (1)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Tom has a fair dice with 12 faces of equal size.

There is one number on each face.

The numbers are 1 to 12

Tom rolls the dice and looks at the number on the top face.



(b) What is the probability that this number is more than 5?

number bigger than 5: 6, 7, 8, 9, 10, 11, 12 (2)

$$\frac{7}{12}$$

(Total for Question 10 is 3 marks)

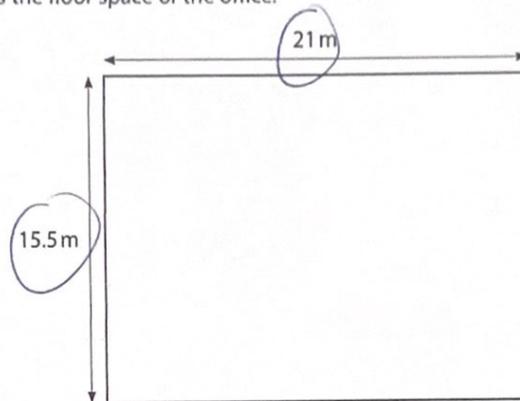
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



11 Georgia is an office manager.

The office floor is in the shape of a rectangle.
The diagram shows the floor space of the office.



A total of 65 people work in the office.
Each person needs at least 4 m^2 of floor space to work in.

Georgia wants to increase the number of people working in the office by 20%.

She thinks that each person will still have at least 4 m^2 of floor space to work in.

Is Georgia correct?
Show why you think this.

Total area: 325.5 m^2 (5)

20% increase = 1.2 $\rightarrow 65 \times 1.2 = 78$ people

$325.5 \div 78 = 4.17\dots$

There is $4.17\dots \text{ m}^2$ per person which is indeed larger than 325.5

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Yes

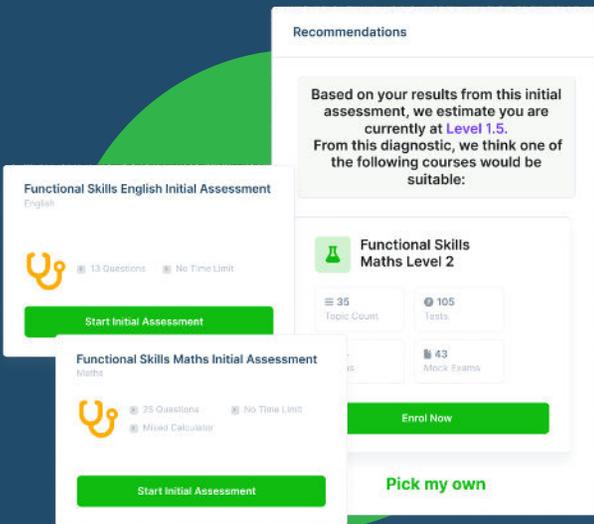
(Total for Question 11 is 5 marks)

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



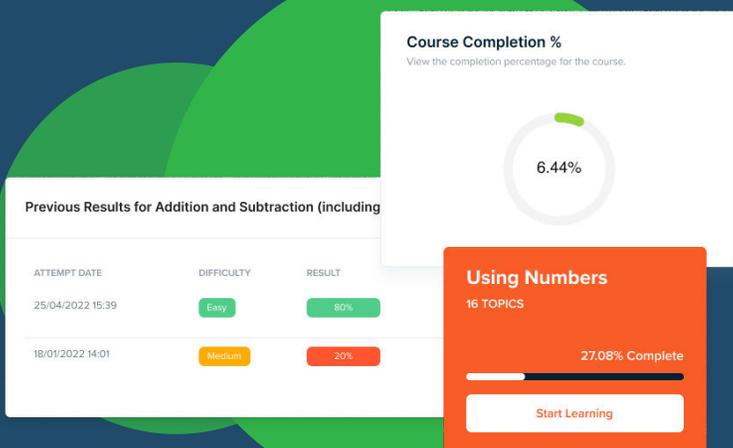
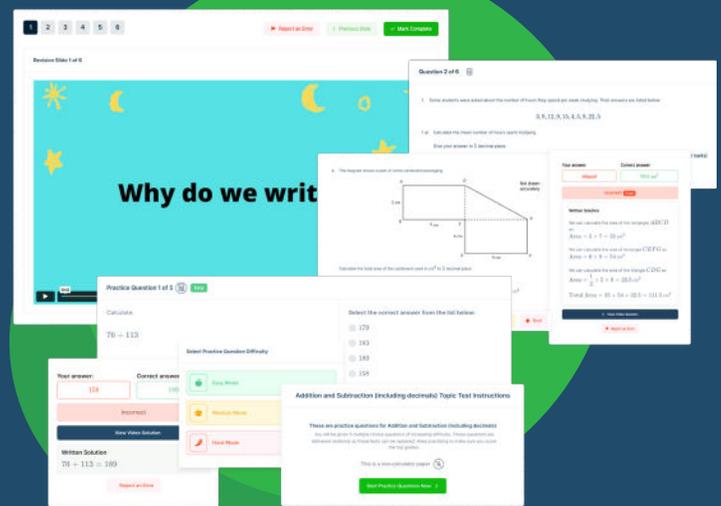


FUNCTIONAL SKILLS ONLINE COURSES



- ✓ 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