

Write your name here

Surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

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Candidate Number

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Mathematics

Level 1



6 – 10 February 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 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 ►

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Pearson

SECTION A: Charity work

Answer all questions in this section.

Write your answers in the spaces provided.

- 1 Robyn is going to do a 24 mile walk for charity.
She asks people to sponsor her.

Robyn has this information about how much money each person will give her.

Name	Amount for each mile	Amount for 24 miles
Shahida	£1	£24
Anita	£2	£48
John	30p
Su	80p	£19.20
Tariq	60p	£14.40
Total amount of money	

Robyn needs to work out the total amount of money she should get.

(a) Complete the table for Robyn.

(3)

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

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Robyn does not finish the walk.

She says to Anita

You said you would give me £48 to walk 24 miles.

I only walked for $\frac{3}{4}$ of this distance so you only need to give me £32

(b) Does $\frac{3}{4}$ of 48 equal 32?

Show a check of your working.

(4)

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

Use the box below to show your check.



(Total for Question 1 is 7 marks)



- 2 Don is organising a comedy night for charity.
He is going to sell food at the comedy night.

Here is the price list.

Price list	
Slice of pizza	£2.75
Hot dog	£1.25
Hamburger	£1.95
Sandwich	£2.25
Chips	£1
Cake	£1.45

Don uses these instructions to work out how much money he can expect to make by selling food at the comedy night.

Work out the mean average price of all the items in the price list.
Multiply this mean average price by 80

Don thinks he can expect to make at least £140

- (a) Can Don expect to make at least £140 by selling food at the comedy night?

(4)

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Don hangs this banner up at the comedy night.

For every £5 raised at the comedy night,
£1 will go to a local charity and £4 to a national charity.

The table shows the amount of money raised from different activities at the comedy night.

	Ticket sales	Food sales	Drink sales	Raffle
Amount of money raised	£400	£100	£250	£50

Don thinks he should give £600 to a national charity.

(b) Is Don correct?
Show why you think this.

(4)

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

(Total for Question 2 is 8 marks)



3 Don needs to pick a local charity to give some of the money to. He has these charities to pick from

- cats home
- local hospital
- children's centre
- dogs home.

Don picks one charity at random.

What is the likelihood that Don picks an animal home?

(1)

Tick (✓) your answer below.

very likely

()

likely

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evens

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unlikely

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very unlikely

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(Total for Question 3 is 1 mark)



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SECTION B: Hairdressing

Answer all questions in this section.

Write your answers in the spaces provided.

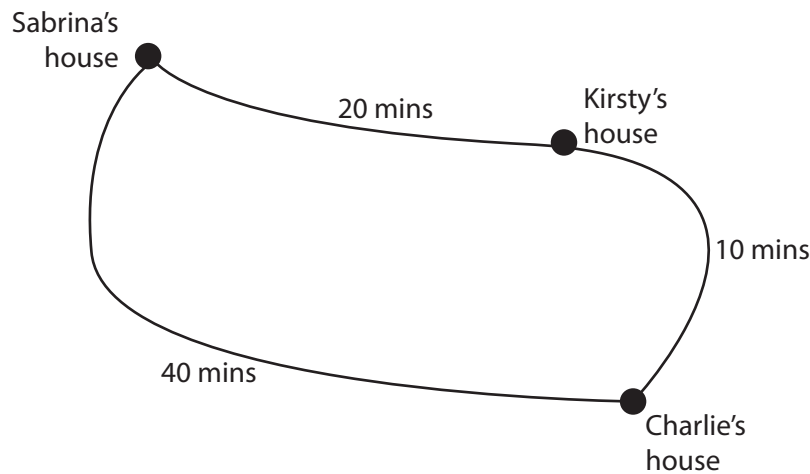
- 4 Kirsty has a hairdressing business.

Each Monday Kirsty drives to her clients.

She needs to plan what she is doing this Monday.
Kirsty writes down these appointments for Monday.

Client	Time needed for appointment	Appointment start time
Charlie	2 hour 30 mins	11:30 am
Sabrina	45 mins	after 1 pm

Kirsty draws this sketch to show the driving times between her house, Charlie's house and Sabrina's house.



Kirsty will arrive at Charlie's house for 11:30 am.
She thinks that the earliest she can expect to arrive home after these two appointments is 3:30 pm.

Can Kirsty finish the appointments and arrive home by 3:30 pm?

(5)

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



(Total for Question 4 is 5 marks)

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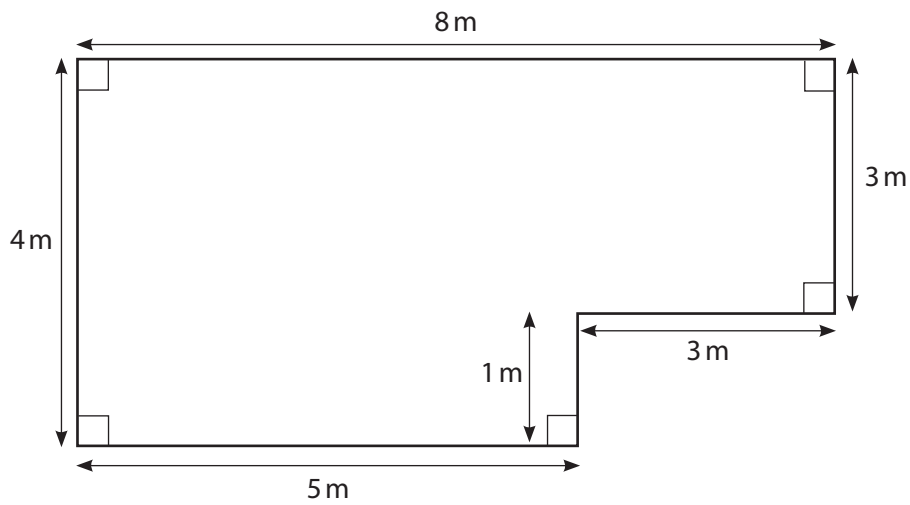
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- 5 From Tuesday to Saturday Kirsty works in her salon.
She needs to decorate the salon.

Kirsty wants to lay a new floor.

The diagram shows the floor space of the salon.



- (a) Work out the area of the floor space of the salon.
Show a check of your working.

(4)

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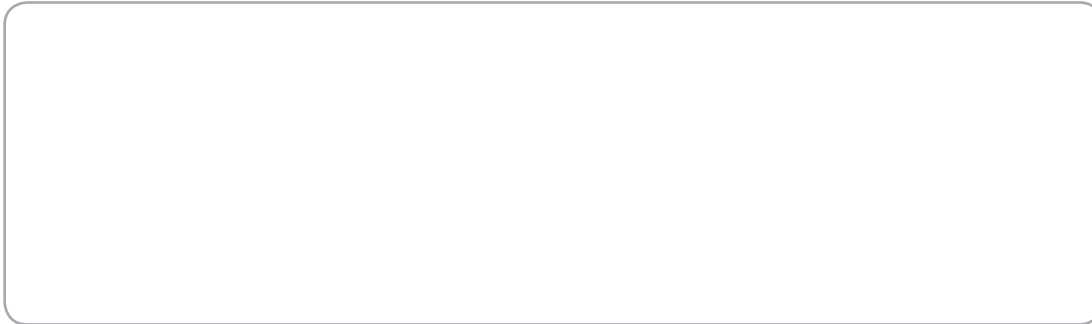
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Use the box below to show clearly how you get your answer.



Use the box below to show your check.



Kirsty needs to choose some laminate flooring.

She finds this information.

Style	Thickness (mm)	Width (mm)	Cost per square metre
Grey oak	6	160	£6.00
Aged oak	8	190	£9.00
Dark oak	8	190	£8.00
Harvest oak	8	160	£11.00
American walnut	10	160	£12.00
Natural walnut	8	160	£10.00

Kirsty wants to buy laminate flooring with a thickness of 8 mm and a width of 160 mm.

She wants to pay as little as possible.

(b) What style of laminate flooring should Kirsty choose?

(1)

Use the box below to write your answer.

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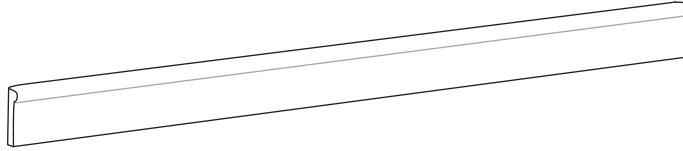
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Kirsty wants to fit some skirting board along a wall.
The wall is 4 m in length.



Kirsty fits one piece of skirting board 2.4 m in length along this wall.

She fits a second piece of skirting board to finish covering the full length of the wall.

(c) What is the length of this second piece of skirting board?

(2)

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

(Total for Question 5 is 7 marks)



6 Kirsty prepares for a meeting with her accountant.

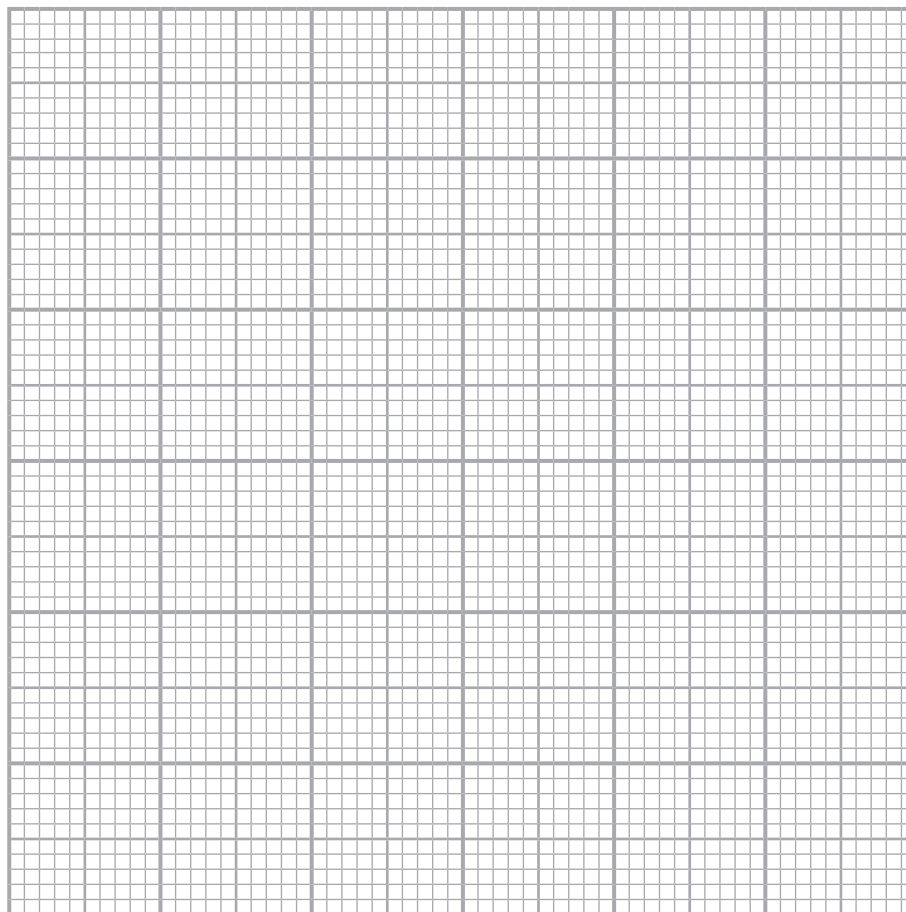
The table shows the profit her business made in each of the last 5 years.

Year	2011	2012	2013	2014	2015
Profit (£)	15 000	18 500	16 500	22 000	24 500

Kirsty wants to draw a graph or chart to show the profit in each of the last 5 years.

(a) Draw a graph or chart for Kirsty.

(3)



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(b) Write a comment about the profits for the past 5 years.

(1)

Write your comment in the box below.

(Total for Question 6 is 4 marks)

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SECTION C: Home cinema

Answer all questions in this section.

Write your answers in the spaces provided.

- 7 Tim is going to buy a large garden shed.
He plans to use it for a home cinema.

Tim wants to buy this shed.

Garden shed Price £3200



Tim pays a deposit for the shed.
The deposit is 15% of the price.

- (a) How much is 15% of £3200?
Show a check of your answer.

(3)

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

Use the box below to show your check.



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Tim wants to hang curtains along all 4 walls of the shed.

He uses this formula to work out the amount of material he needs to buy.



The length of the shed is 7.25 m and the width is 3.75 m.
Tim thinks he needs to buy 44 m of material.

(b) Does Tim need to buy 44 m of material?

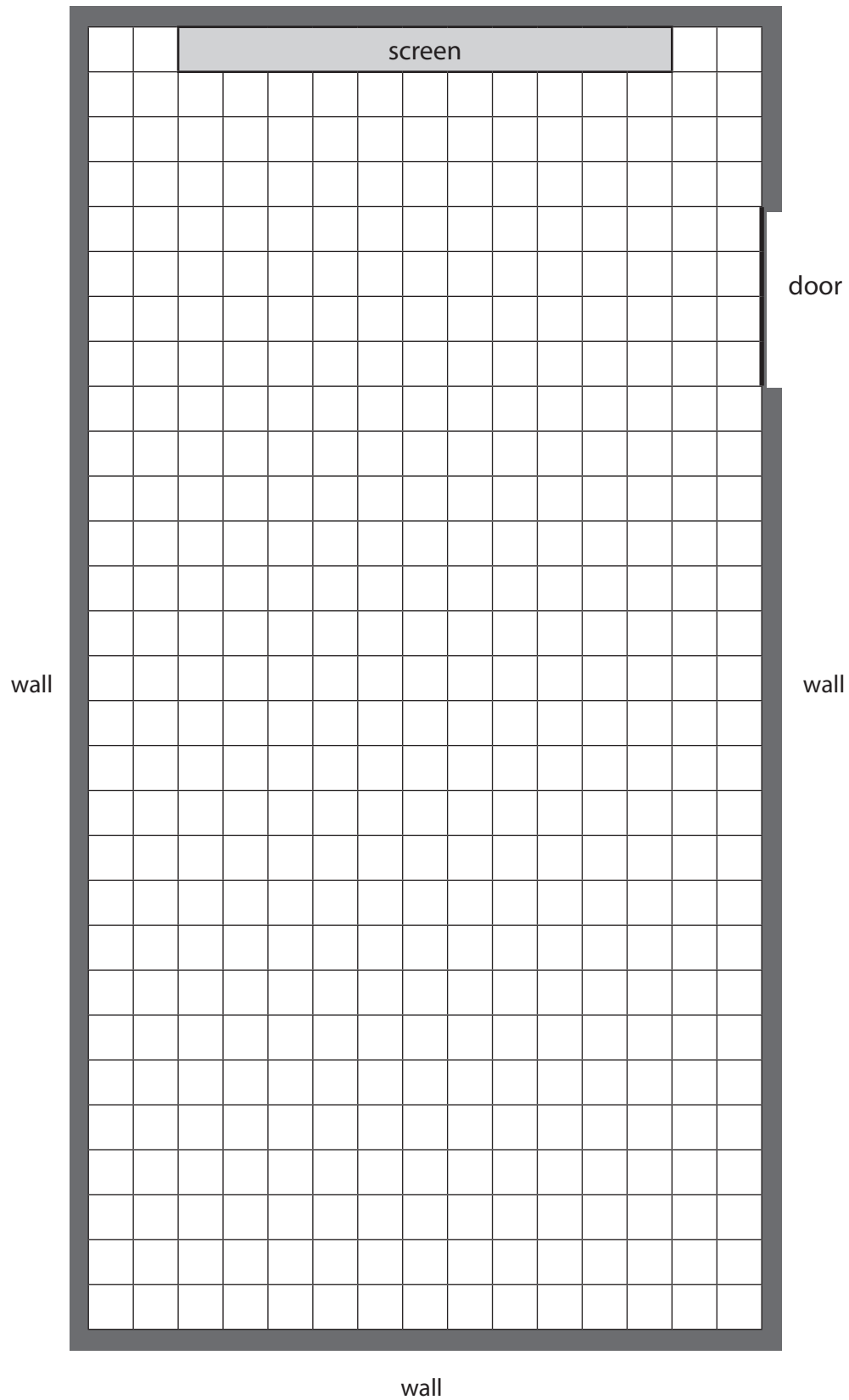
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Use the box below to show clearly how you get your answer.

(Total for Question 7 is 6 marks)



- 8 Tim wants to put two sofas in the shed.
He draws a plan of the floor space on this grid.



Key: 1 square on the grid is 25 cm by 25 cm on the floor of the shed.

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Each sofa needs a rectangular space 2 m by 1 m.

There must be a gap of at least

- 75 cm between any sofa and the walls
- 50 cm between sofas
- 3 m between the screen and the sofa nearest to the screen.

The longest side of each sofa must face the screen.

Draw the space for each sofa on the grid.

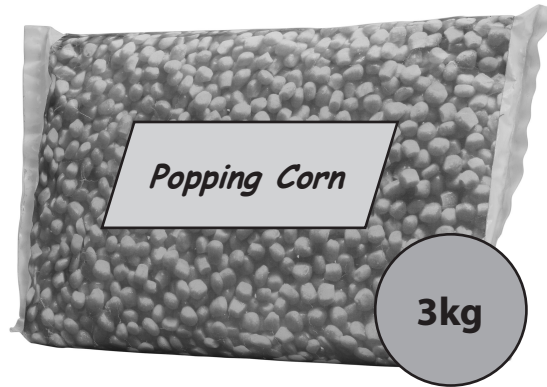
(4)

You may use the box below to show any working.

(Total for Question 8 is 4 marks)



9 Tim buys this bag of popping corn.



Tim knows he can make 1 serving of popcorn from 50 g of popping corn.
He thinks he can make 75 servings of popcorn from the 3 kg bag.

Is Tim correct?
Show why you think this.

(3)

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

(Total for Question 9 is 3 marks)

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10 Tim wants to find out what type of film his friends like to watch.

He uses this data collection form to show the information he has collected so far.

	Type of film			
Age of friend	Action	Science fiction	Comedy	Drama
14 and under				
15–17				
18 and over				

Katie is 19 years old.

She likes to watch drama films.

(a) Add Katie's choice to the data collection form.

(1)

Tim uses the data collection form to make some notes.

(b) Use the information from the form to complete the following statements for Tim.

(2)

1. The total number of people who like action films is
2. The most popular type of film chosen by friends 18 and over is
3. In total more people like science fiction than comedy.

(Total for Question 10 is 3 marks)

TOTAL FOR PAPER IS 48 MARKS





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