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Surname		Other names	
Pearson Edexcel Functional Skills	Centre Number	Ca	ndidate Number
Mathema	tics		
Level 1			
Level 1		Pape FS	er Reference 5M01/01

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 🕨

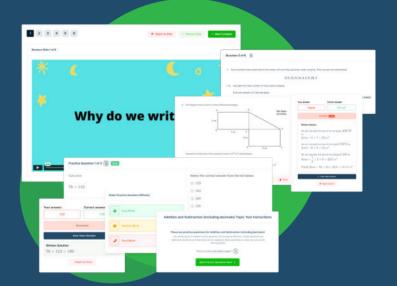




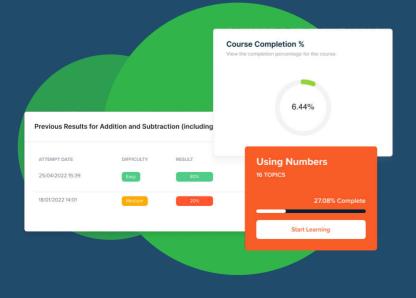
FUNCTIONAL SKILLS ONLINE COURSES

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🖷 13 Questions 📲 No Timo Limit		ional Skills 5 Level 2
Start Initial Assessment	≡ 35 Topic Count	© 105 Tests
Functional Skills Maths Initial Assessmen	it is	1 43 Mock Exams
S Questions No Time Limit Mixed Calculator		Enrol Now
Start Initial Assessment	Pi	ck my own

- 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

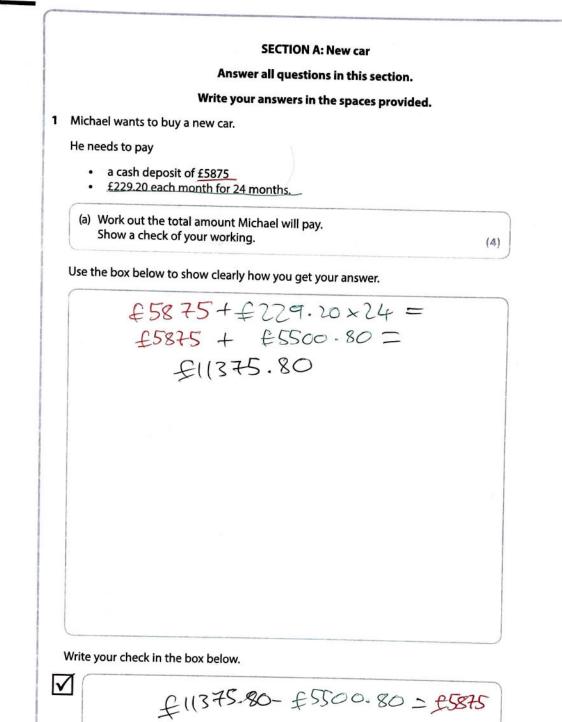


- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions



- 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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Michael needs to buy car insurance. He finds this information.

insurance company	cost each month	excess	legal expenses	breakdown cover
Α	£84.99	£350	yes	no
В	£88.90	£300	yes	yes
с	£91.50	£250	no	no
D	£94.33	£250	no	yes
E	£95.99	£250	yes	yes
F	£102.50	£300	yes	yes

Michael wants car insurance that

- has breakdown cover .
- has an excess of less than £300 .
- costs the lowest amount each month. .

(b) Which insurance company should Michael use?

(1)

Use the box below to show clearly your answer.

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Michael wants to buy winter tyres for the car.

The normal price for the tyres is ± 400 There is a discount of 15% off the normal price.

Michael thinks 15% of £400 is £50

(c) Is 15% of £400 equal to £50?

(2)

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

(5% = 0.15 $0.15 \times \pm 400 = \pm 60 \neq \pm 50$. No.

(Total for Question 1 is 7 marks)

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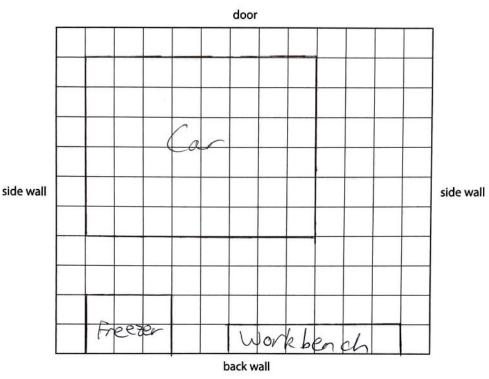
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2 Michael parks the car in his garage.

He wants to know if there is also space for a freezer and a workbench in the garage.

Michael makes a scale drawing of the garage floor.

Scale drawing of the garage floor



Key 1 square on the grid represents 50 cm by 50 cm on the garage floor

The car takes a rectangular space 4 m by 3 m.

The freezer needs a rectangular space 1.5 m by 1 m. The workbench needs a rectangular space 3 m by 50 cm.

The longest side of the freezer and the longest side of the workbench must go along a wall.

There must be a gap of at least

- 50 cm between the space for the car and any other object
- 1 m between the space for the freezer and the space for the workbench.

Draw the space for the freezer and the space for the workbench on the grid above.

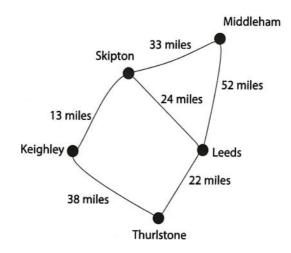
(Total for Question 2 is 4 marks)

(4)

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 Michael plans a trip in his new car. He wants to visit Skipton and Middleham.

Michael will start and end his trip in Thurlstone. He draws this sketch to show distances between places.



Michael wants to use the sketch to find the shortest route. He knows the cost of petrol to drive 10 miles is ± 1

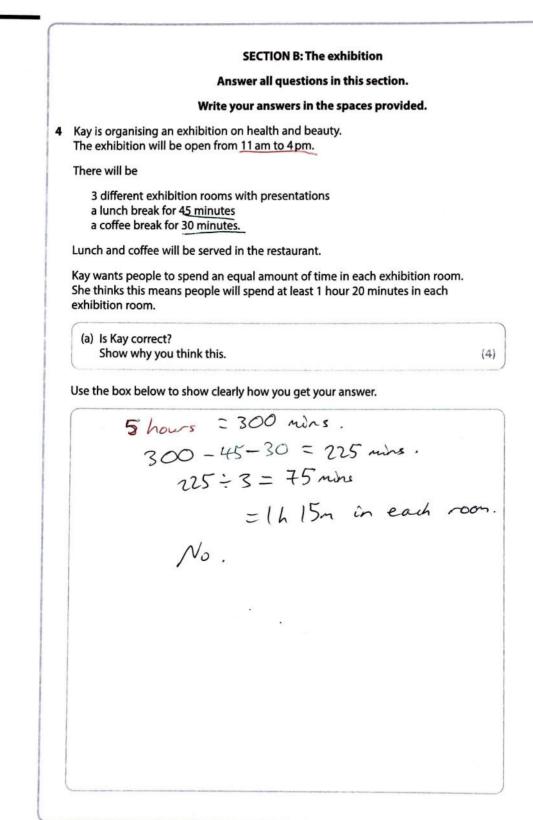
Michael thinks the cost of petrol to drive the shortest route will be less than £16

Is Michael correct? Show why you think this.

.

(5)

Shortest raite:
Thurlstone
$$22$$
, Leeds \rightarrow Shipton \rightarrow Middlehan \rightarrow Leeds \rightarrow Thurlstone
 $22 + 24 + 33 + 52 + 22 = 153$ milles.
 $153 \div 10 = \text{f}(5.30) \leq \text{f}(6)$.
Muchael is correct.



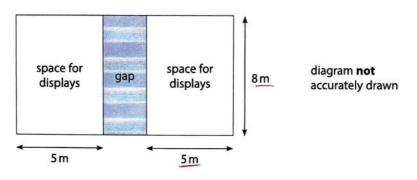
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Kay wants to plan the displays in a room.

Each display needs a space of 3 m²

Kay has a sketch of the room. All corners are right angles.



Kay thinks there is enough space for at least 25 displays.

(b) Is there enough space for at least 25 displays in the room?

(4)

 $8x5 = 40n^2$. $40x2 = 80n^2$. $80 \div 3 = 26.66... > 25$ Yes.

Jermaine will have a perfume display in one of the rooms. He has <u>2 litres</u> of perfume to give away to visitors.

Jermaine has 120 empty bottles. Each bottle can hold 15 ml of perfume when full.

(c) Does Jermaine have enough perfume to fill up all the bottles? Show a check of your working.

(4)

2 litres = 2000 ml $120 \times 15 = 1800 \text{ mL}$ 1800 2 2000 Yes.

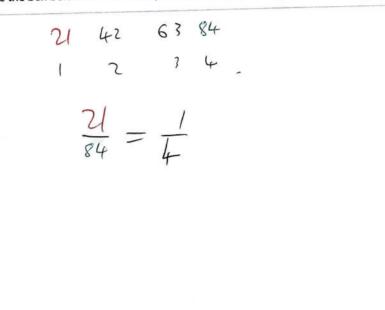
	Write you	r check in the box below.
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۵		

5 Kay asks 84 people to complete a survey about the exhibition. Only 21 people complete the survey.

Kay wants to know what 21 is as a fraction of 84

(a) Write down 21 as a fraction of <u>84</u>
 Write your answer as a fraction in its simplest form.

(2)



Kay wants to record the ratings from the survey. She starts to fill in the tally chart below.

rating	tally	number of people
poor	11	2
ok	1111	4
good	11 ++- (_6
excellent	1111	9

Kay still needs to put these ratings into the tally chart and complete the last column of the table.

poor	good	good	excellent	poor
excellent	excellent	good	good	excellent

(
(b) Complete the tally chart fully for Kay.	
	(2)

(Total for Question 5 is 4 marks)

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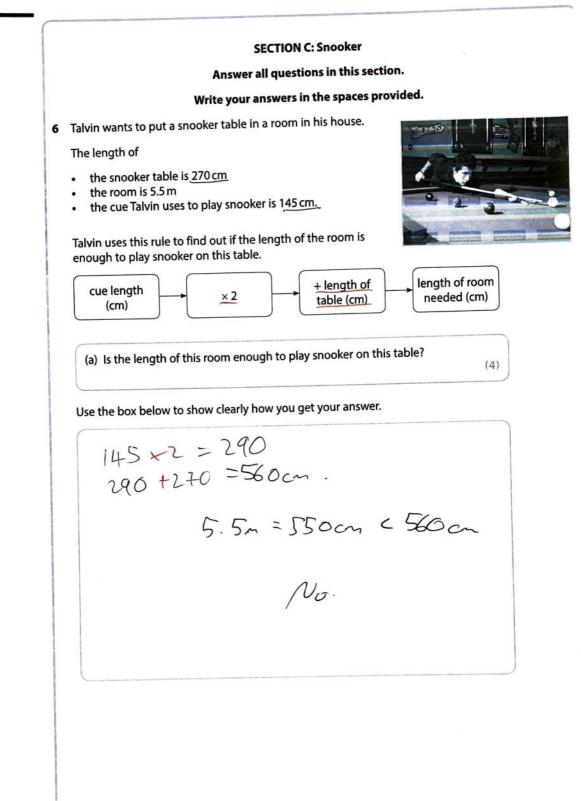
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Talvin needs to buy some snooker chalk to use with the cue. He compares these two offers.

Offer 1	
4 pieces of cha	lk
£1.80	

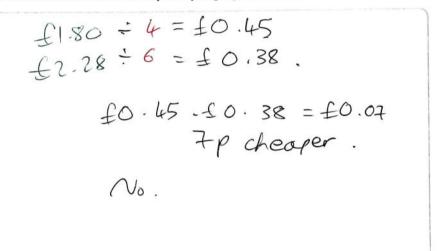


(5)

Talvin thinks that each piece of chalk is 10p cheaper with offer 2

(b) Is each piece of chalk 10p cheaper with offer 2? Show a check of your working.

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



Write your check in the box below.

 \checkmark £0.45 × 4 = £1.80 g (Total for Question 6 is 9 marks)

7 Talvin is having a snooker competition with his friends. There are 5 people in the competition

Paul, Ravi, Sam, Talvin and Violet.

Every person must play one game with each of the other people.

There is only one snooker table. No one can play more than two games in a row.

Talvin plans who plays who in each game in the competition. Paul and Ravi will play game one.

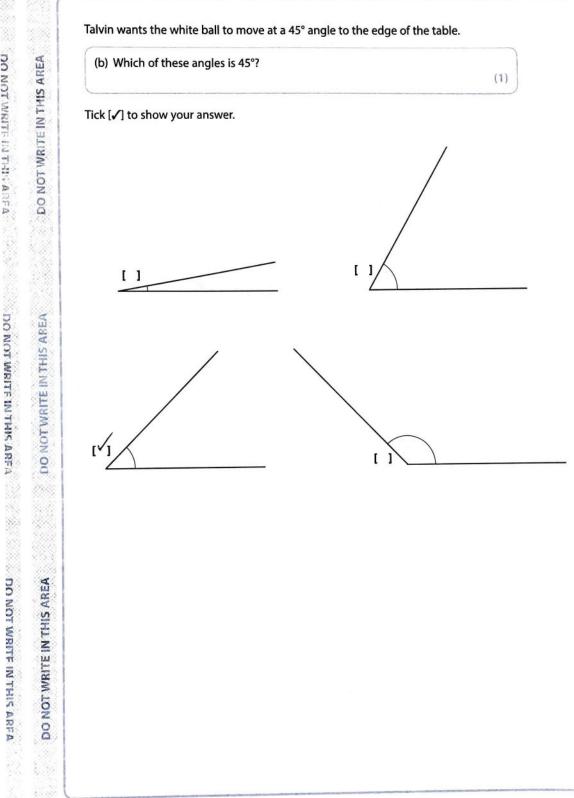
(a) Plan who plays who in the rest of the games in the competition.

(3)

Use the box below to show your answer clearly.

Game	Players
1234567890	Paul and Ravi Sam and Tolvin Paul and Violet Ravi and San Paul and Talvin Ravi and Violet Paul and San Ravi and Violet Talvin and Violet
(0	Talvin and Violet

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The friends play 4 games of snooker in $2\frac{1}{2}$ hours.

The first game lasts for 45 minutes.

Talvin says

"Each of these games lasted a mean time of 45 minutes."

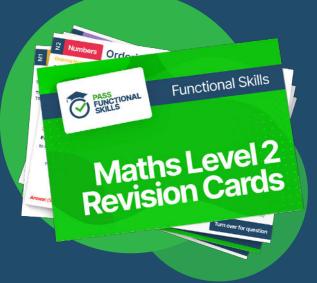
(c) Is Talvin correct? Show why you think this.

(3)

2= h = 150 min $\frac{150}{4} = 37.5$ mins < 45 min No. (Total for Question 7 is 7 marks) **TOTAL FOR PAPER IS 48 MARKS**







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