Surname		Other names	
Pearson Edexcel Functional Skills	Centre Number		Candidate Number
Mathema	tics		
13 – 17 March 2017 Time: 1 hour 30 minutes	5		Paper Reference FSM01/01
You must have: Pen, calculator, HB pencil, era	ser, ruler graduate	d in cm an	d mm,

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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tional Skills English Initial Assessment	Based on you assessmen curre From this dia the followi	r results from this initial t, we estimate you are ntly at Level 1.5. gnostic, we think one of ng courses would be suitable:
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- 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
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Norman gives regular customers a 15% discount loyalty card.

Mrs Brown has a loyalty card. She buys fruit costing £4.60

(b) Work out 15% of £4.60

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

0.1	5 ×	£4.60	0 =	£0.	69
	0.1	0.15×	0.15 × £4.60	0.15 × £4.60 =	0.15 × £4.60 = £0.

(2)

2 Norman sells the same type of potatoes in bags of different weights. Potatoes Potatoes 2 kg 500 g £1.65 48p Norman says the 500 g bags of potatoes give the best value for money. (a) Is Norman correct? Show why you think this. (5) Show a check of your working. Use the box below to show clearly how you get your answer. 500g = 0.5kg. 2 - 0.5 = 4. 4 × 48 p = 192 p = £1.92 > £ 1.65 No. Write your check in the box below. £1.92 = 4 = £0.48 = 68p. |

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Norman is going to put mirror strips around 3 sides of his display shelf. His display shelf has 1 side of length 45 feet and 2 sides each of length 12 feet.

> Diagram **not** accurately drawn



The mirror strips are all of length 3 feet.

Norman buys 25 mirror strips.

(b) Does Norman have enough mirror strips to go around all 3 sides of the shelf?
(3)

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

 $3 \times 25 = 7586$. 45412 +12 =6986. 69 < 75 So Norman does have enough (Total for Question 2 is 8 marks)

.

 Norman sells 200 raffle tickets. The prize for the raffle is a basket of fruit.

Mrs Brown buys 3 of these raffle tickets.

(a) What is the likelihood of Mrs Brown winning the raffle?	
---	--

Tick a box to show your answer.

impossible	unlikely	even	likely	certain
	\checkmark			

Norman asks each customer if they would like a home delivery service. If they do, he needs some information.

He needs to know what time of day they would want a home delivery.

- morning
- afternoon
- evening

How far they live from the market.

- under 5 miles
- 5 15 miles
- over 15 miles

Norman needs a data collection sheet by each till.

(b) Design a data collection sheet for Norman.

(3)

(1)

Use the box below to show your data collection sheet.

Vane	Address	Delivery Time		Pistance grom manhel				
		mon	ast	even	25	5-15	>15	*i;

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SECTION B: Wildlife centre Answer all questions in this section. Write your answers in the spaces provided. 4 Dean, Jan and their 2 children are visiting the wildlife centre. The children are 12 and 5 years old. Dean sees these admission prices. **Admission prices** £12.60 Adult £6___ Child (age 4-16) Group ticket (2 adults and 2 children) £32 Dean thinks it will be cheaper to buy a group ticket for the visit. (a) Is Dean correct? (4)Show why you think this. Use the box below to show clearly how you get your answer. f(2.60, 2+f6, 2=f37.20)7f32.So Pean is correct.

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There is a wildlife walk at the centre. Dean sees this notice at the start of the walk. wildlife walk 3 miles Dean uses this rule to change miles to kilometres. number of number of multiply by 8 divide by 5 kilometres miles Dean thinks the walk is 4 kilometres long. (b) Is the walk 4 kilometres long? (4)Show a check of your working. Use the box below to show clearly how you get your answer. 3 × 8 = 24 $24 \div 5 = 4.8 \text{ km} \neq 4 \text{ km}$. The walk is not 4 km long.

Write your check in the box below.

4.8 ×5 = 24 |

(Total for Question 4 is 8 marks)

5 Jan wants to plan their visit. She knows these activities are available.

Activity	Start time	Duration
flamingo talk	11.15	1 hour 15 mins
swan feeding	2.30	$\frac{1}{2}$ hour
lego brick animals workshop	12.00	1 hour
pond dipping	available all day	$\frac{1}{2}$ hour
den building	available all day	$\frac{1}{2}$ hour
bug hunting	available all day	$\frac{1}{2}$ hour
meet the reptiles	available all day	$\frac{1}{2}$ hour

Jan wants to

- arrive at 10.15
- go to the flamingo talk
- go to the swan feeding
- allow 30 minutes for lunch between 12.30 and 1.30
- go to 2 other activities
- be at the cafe by 4 o'clock.

She needs at least 10 minutes to travel between activities.

Write a plan for the visit for Jan. You must show the start and finish times for each activity.

(5)

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Use the box below to show your plan.

Arrove 10:15 Pond dipping start 10:25 Pond dipping end 10:55 Travel to Flaningo 11:05 Flamingo start 11:15 Flamingo end 12:30 Lunch start 12:40 Lunch start (3:10 Lunch end The Bug hunting start 13; 20 Buy hunting end 13:50 Travel to swan seeding 14:00 Swan seeding start 14:30 Swan seeding end 15:00 Travel to case 15,10.

6 Dean, Jan and the children visit the cafe. They see the price list for the drinks.

		-
Tea	£1.30	
Coffee	£1.50	
Hot chocolate	£1.20	
		/

Dean wants to order <u>4</u> hot chocolates.

He thinks he will have change from a £5 note.

(a) Will Dean have any change from a £5 note? Show why you think this.

(2)

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

£1.20x4 = £4.80. fS = fL. 80 = 20p.20p Change.

Dean and Jan are planning to visit the wildlife centre again next week.

They want to go when

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- the temperature is above 20°C
- the chance of rain is less than 24%

They find this information on the internet.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temperature (°C)	17	20	19	24	18	21	23
Chance of rain (%)	24	17	34	16	77	15	52

(b) Choose a day next week for their visit.

(1)

Write your choice of day in the box below.

Wednesday

(Total for Question 6 is 3 marks)



Rashid is going to paint the walls of his dining room light green. He finds this information in a DIY shop.

	To make light green paint
Ì	mix
	1 litre of blue paint
	with
	3 litres of yellow paint
ł.	

Rashid is going to use 2 litres of blue paint to make light green paint.

(b) How much yellow paint does Rashid need to use? Show a check of your working.

(3)

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

3×2=6 6 Worres. Write your check in the box below. |6-3=2. (Total for Question 7 is 7 marks)

8 Rashid is going to buy a table and a display unit. He wants to work out where to put them in his dining room.

The table needs

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a rectangular space 200 cm by 150 cm.

The display unit needs

- a rectangular space $1\frac{1}{2}$ m by $\frac{1}{2}$ m
- · the longest side against a wall.

He draws a plan of the dining room on a grid.

Draw the table and display unit on the plan for Rashid.

(4)

			Stereo unit
Book shelves	Table		TV
	3.		
	Display uni	.'6	Door

Key: 1 square on the grid is 50 cm by 50 cm in the dining room

(Total for Question 8 is 4 marks)

Rashid sees the dining table and the display unit he wants in 3 different stores. 9 Each store has a different offer for the table and the display unit.

House of Style

table and display unit

£95 deposit

and

12 monthly payments of £32

free delivery

Dining Outlet

buy today, pay $\frac{1}{3}$ normal price

table and display unit

normal price £1545

free delivery

Naveed's Dining Store

table £199

display unit £280

total delivery charge £20

Rashid has a budget of £500

Which stores can Rashid afford to buy the table and the display unit from? Show why you think this.

(5)

95+12+32 = 95+384 = 479 < 500 1545 x = 515 > 500 199 + 280 + 20 = 499 < 500

Rashid can assord to buy from House of Style and Naveed's Dining Store.







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