## FUNCTIONAL SKILLS MATHS LEVEL 1 SKILLS PAPER 1

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Candidate number	]
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### Functional Skills Level 1 MATHEMATICS

Section A: Non-Calculator Paper Section B: Calculator Paper

Paper A/B

Time allowed: 30 minutes / 1 hour 30 minutes

Materials

For this paper you must have:

mathematical instruments.

You **must not** use a calculator for section A. You may use a calculator for section B.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- · Do all rough work in this book. Cross through any work you do not want to be marked.
- · State the units of your answer where appropriate.

#### Information

- The marks for questions are shown in brackets.
- The maximum mark for section A is 15 and section B is 45.
- The maximum mark for this paper is 60.
- · You may ask for more answer paper, graph paper and tracing paper.
- These must be tagged securely to this answer book.

#### Advice

· In all calculations, show clearly how you work out your answer.



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# FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	assessmen curre From this dia	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:
🖷 13 Questions 📲 No Timo Limit		ional Skills 5 Level 2
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Functional Skills Maths Initial Assessmen	it is	<b>1 43</b> Mock Exams
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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
- Determine when you are ready to sit your exam



- Explainer videos on every topic
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- 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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	2	and the second second to the second
1	Work out $19^2 - 3 \times 5 + 2$	[2 montual
	361-15+2 = 348	[2 marks]
	Answer 348	
2	Calculate 17.89 + 23.47	
	17.89 + 23.47 +	[1 mark]
	41.36	
	Answer 41.36	
3	Calculate 23.1 ÷ 1000	
	00023.1000	[1 mark]
	Answer 0.0231	
	Turn over for next question	

Jeffrey rec	ords the a	ages of so	me peopl	e that atte	nd his gy	m.		
26	_15	28	18	19	<i>A</i> 3	.53	<b>.61</b>	-48
28	34	A2	23	25	22	31	20	19
23	31	43	.50	23	34	27	39	18

3

Fill in this table for Jeffrey's data.

Age	Tally	Frequency
0-19	IHT	5
20-29	HUTH	10
30-39	1H1	5
40-49	1111	Ч
50 or over	)]]	3

Question continues on next page





6 There are 120 members that attend Jeffrey's gym in total. The gym offer either a silver membership or a gold membership. The ratio of people on the silver membership to gold membership is 3:5. How many people are there on each membership? [2 marks] Total Parts = 3+5 =8 1 part = 120 - 8 = 15 3×15=45 silver, Stis= 75 gold Answer 45 silver, 75 gold 7 Jeffrey has a bag of various sports balls. He has 7 footballs, 3 rugby balls and 6 tennis balls. What is the probability of Jeffrey picking a football out of the bag at random? [1 mark] 7+3+6 Answer **End of Section A** 

### **SECTION B : Calculator**

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

	8
8	David is training for a charity run. As part of David's training, he runs around a field seen below. He aims to run at least 5 km.
	40 m 20 m 52 m 36 m 92 m
	How many full laps of the field will he need to run?
	Assume that he can only complete full laps. [3 marks]
	Perimeter = 36 + 52 + 20 + 40 + 56 + 92 = 296m = 0.296 km
	- 290m -0:296 KM
	5 ÷ 0 · 296 = 16 · 89 = 17 full laps
	Answer 17
	Turn over for next question

		Time (minutes)				
	Monday	Tuesday	Wednesday	Thursday	Friday	1
Week 1	29	32	30	33	32	1
Week 2	27	29	34	30	28	
Week 3	28	30	31	30	33	7
	2: 3 3: 3					
of running	Answer a new pair of run shoes is £65, but will the running s	nning shoes to David has a 2	0% off voucher.	ty run. The pric	-	
65	×0·8=	ES2				[1
	Answer		ES2	2		6
		Turn over fo	or next question	1		

10 There are 24 members of a church. Two thirds of the members are women. 11 How many of the church members are women? [1 mark] 24-3×2= 16 16 Answer Delia wants to decorate her square house by putting Christmas lights on two of its 12 sides. Her house is 17 m wide. To calculate the number of lights she needs, she uses this rule: Total length +50X 6 (in m) Lights come in boxes of 80. Each box costs £15.99 Calculate how much it would cost Delia to decorate her house in this way. [4 marks] 17×2= 34m length of lights 34+6+50 = 254 lights 254 = 80 = 3.175 , So 4 bares needed 4× EIS.99 = E63.96 £63.96 Answer Turn over for next question Turn over >

11
Shauna is baking cookies for 48 people. She uses the following recipe:
<u>Cookie recipe (serves 6)</u> 225 g butter 125 g caster sugar 300 g plain flour 100 g milk chocolate chips
Shauna has $1\frac{3}{5}$ kg of butter in her fridge.
How much more butter does she need to be able to bake the cookies for 48 people?
Include the units in your answer.
[4 marks]
48-6=8
8×225=1800g of botter needed
13= 1.6 kg = 1600g butter
1800 - 1000 = 200 g butter needed
Answer 2009
Turn over for next question



Turn over ►

13

15

The table below shows figures for the number of ticket sales at a museum on one day.

Ticket type	Adults	Children	Concessions	Other
Tickets sold	231	105	56	12

The concession ticket type gives access to the museum to seniors and students. The ratio of seniors to students who visited the museum on this day was 4: 3.

What percentage of the total ticket sales on this day were seniors?

[4 marks] Total ports = 4+3=7 \$ 56-774 = 32 Seniors Total tickets sold = 231+10st S6+12 = 404 32 × 100 = 7.920. % 7-92 % (2dp) Answer Turn over for next question

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#### 16 Billy weighs 76 kg.

Billy claims that he weighs more than the mean weight of his friends.

The weight of his friends can be seen in the table below.

Friend	Weight (kg)
Kyle	75 kg
Chloe	70 kg
Katie	68 kg
Ari	80 kg
Sean	78 kg
Mark	76 kg

Is Billy correct?

Show your working.

[3 marks] <u>75+70+68+80+78+76</u> 6 Mean = 74.5 kg So yes, Billy is owed Tes. Answer Turn over for next question

15 Which of these shapes have exactly 2 lines of symmetry? 17 4 2 2 С B A [2 marks] B and C Answer Monique eats  $\frac{1}{4}$  of a pizza and Ahmed eats 28% of the same pizza. 18 Who eats the most pizza? Show your working. [2 marks] 4= 25% So Ahmed ears the most pizza Anned Answer Turn over for next question Turn over >



Turn over >

17 20 Mary uses the following mileage chart to see the distances between various cities. Leicester 52 Lincoln Nottingham 26 36 (37) Sheffield 47 61 Mary wants to drive from Sheffield to Nottingham, and then from Nottingham to Leicester. She has enough petrol in her car to travel 70 miles. Does she have enough petrol to do these journeys? Show your working. [2 marks] Total distance = 26+37=63 miles So yes, she does have enough petrol Tes Answer Turn over for next question

	18
21	Wendy has bought a hot tub for her garden and wants to fill it with water.
	A diagram of the hot tub can be seen below.
	0.9 m 2.2 m
	She is going to use a hose pipe that will fill the hot tub with $0.026 \text{ m}^3$ of water per minute.
	Calculate how long it will take Wendy to fill the hot tub using this hose pipe.
	Give your answer to the nearest minute.
	[4 marks] Volume = 0.9+2.2 × 1.9 = 3.762m <sup>3</sup>
	3.762 - 0.026 = 144.69.
	= 145 minutes (neavest minute)
	Answer 145 Minutes. Turn over for next question

				Tim.
Day	Job	Shift times	Breaks	war
Monday	Café	07:30 - 13:00	30 mins	SVA
Tuesday	Café	09:00 - 15:00	30 mins	Sisha
Wednesday		Day Off		
Thursday	Cleaner	10:00 - 16:00	45 mins	5.25h
Friday	Café	07:00 - 14:00	45 mins	6.25h

Denise is not paid for her break times and she earns £9.10 per hour working at the Café. She earns 20% more per hour working as a cleaner.

If Denise works as a cleaner on a weekend, she gets paid an additional £20.

Work out how much Denise earns in a week.

[5 marks] Cafe hows warked = 5+5.5+6.25 = 16.75 hows Cleaner hours worked = S.2S+ 3= 8.2S hours Cheonerwage = £9.10 × 1.20 = £10.92 Cafe earnings = 116.75×E9.10 = E152.425 = E152.43 Cleaner earnings = 8.25+ E10.92 + E20 = E110.09 Total earnings = EIS2.43+E110.09 = £ 262.52 E262.52 Answer







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