Name	
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Level 2 Numeracy Functional Skills Autumn Term Formative Assessment



Candidate's Paper The Cafe

Activity 1 1 ½ hours



Candidate's Name:	
Date assessment started:	

Name	
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Candidate instructions

What you will need

- A pencil, pen and eraser
- A ruler
- A protractor
- You may use a calculator
- You may use a dictionary or spell check
- Your assessor will provide you with graph paper

What to do if you need help

Ask the person supervising your assessment if you need help with the instructions or extra time to finish your work.

End of assessment

When you have done as much work as you can:

- Check you have put your name and details on the cover of this assessment
- Hand your work to the person supervising your assessment

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(Total 3 marks)

2. Here is a price list of hot drinks sold in the cafe.

Price List							
Tea	£1.15						
Filter coffee	£1.00						
Espresso	£1.15						
Cappuccino	£1.50						
Hot chocolate	£1.55						

Find the total cost of

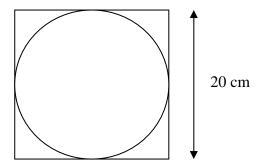
1 tea
1 espresso
2 cappuccino
2 hot chocolates
(2 marks)
The cafe adds a service charge of 12 $\%$ % to each bill.
Calculate the service charge for the cafe bill above.

(2 marks) (Total 4 marks)

Name			

3. Table mats used in the cafe are circular.

The mats are cut from square card with a side measuring 20 cm.



Area of a circle is given by the formula:

What is the area of a circular mat?

Area =
$$\pi r^2$$

Use the π button on your calculator or use 3.14 as the value for π .

(2 marks)	
· · · · · · · · · · · · · · · · · · ·	
When the circular mat is cut out from the cauare card, the n	art of the card that is not used
When the circular mat is cut out from the square card, the pa	art or the card that is not used
is wasted. What area of one card is wasted?	

(Total 4 marks)

4. The cafe manager wants to know what the customers think about the cafe. A survey card is left on the tables for customers to complete. The results are shown below:

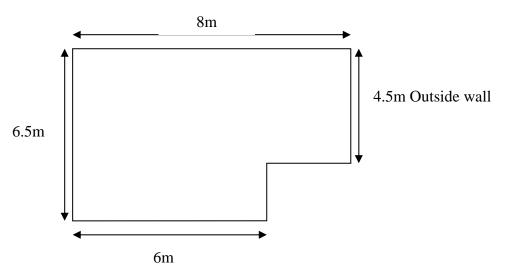
	Very good	Good	Satisfactory	Poor	Very Poor
The service I received today was	30	60	20	5	5
The quality of the food and	37	62	19	1	1
drink I had today was I thought the value for money	25	70	5	16	4
was					

The manager wants to display the results of the questionnaire on the staff notice board. Draw a pie chart to show the customers views about the service they received today.

(Total marks 6)

Questions 5 - 7 are about renovating the cafe

5. The cafe floor needs a new coat of varnish to protect it.



What is the area of the floor?

(Total 2 marks)

8. There is a promotion. Every customer buying a coffee and cake gets a scratch card.

		STC	C Scrat	ch Ca	rd		
Line 1 Scratch one box only							
Line 2 Scratch one box only							

On every card there is a picture of a tick under one of the grey boxes on each line.

In order to win a prize the customer must uncover the 2 boxes with the tick pictures.

The diagram below shows a winning card and a losing card.

WINNING CARD

		STC	C Scra	tch Ca	ard		
Line 1 Scratch one box only							
Line 2 Scratch one box only							

LOSING CARD

	STCC Sci	ratch Card	
Line 1 Scratch one box only			
Line 2 Scratch one box only		Sorry no prize	

What is the probability of uncovering the tick on the first line?
What is the probability of uncovering both ticks and winning a prize?
(Total 3 marks)

Name	
Name	

The canteen manager decides to introduce a new range of organic drinks. She wants to find out the most popular drink. She asks customers to taste some of the drinks and give the drinks a score out of ten.

Each customer tastes two or three of the drinks.

The results of the first day's tasting are shown below.

Fruit Drinks (scored out of 10)					
Customer	Passion	Pomegranate	Carrot &	Plum &	Beetroot &
	fruit	& Blueberry	Coriander	Apple	Banana
А	8			8	3
В		6	6	7	
С			5		5
D		8	4		
Е	9			6	
F			3		3
G	7			4	
Н			10		3
I			2		5
J	8			7	
K	10				5
L	7		4		0
M	8			8	
N		7			4
0	7				4
Р		6	6		
Q		8		8	5
R	9	7			
S	7		6		5
Т			4	8	
Total Scores (day 1)	80	42	50	56	40

	day 1)	80	42	50	56	40
9.	9. What fraction of the customers (labelled A to T) tried three drinks?					
(2 marks)						
State the most popular drink and give its mean customer score.						

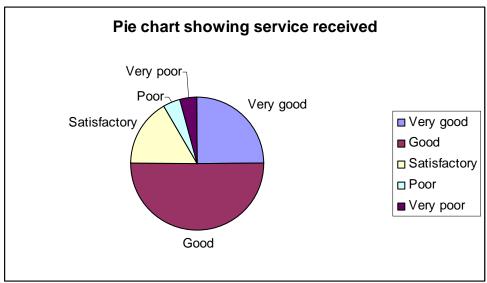
(2 marks)

Pass mark is 24 out of 36

Answers

Answers

1.	Teas – 40 Coffee – 140	1 mark & 1 mark
	2/7	1 mark
2.	Correct method, wrong answer, or answers £8.4 £8.40	1 mark or 2 marks
	Correct method, wrong answer £1.05	1 mark or 2 marks
3.	Correct use of formula, wrong answer 314cm ²	1 mark or 2 marks
	Correct method, wrong answer 86cm ²	1 mark or 2 marks



4.	Title And correct labels & key And correct calculations for all sectors (90°, 180°, 60°, 15°, 15° or 25%, 50%, 16.667%, 4.167%, 4.167% unrounded rounded or truncated) assume correct calculation if sectors are drawn accurately	1 mark 1 mark 2 marks
	5 sectors drawn correctly (90°, 180°, 60°, 15°, 15°) or to their calculated values Or 3 sectors drawn correctly	2 mark or 1 mark
5.	48 (no units), method only eg (6.5 x 8)-(2x2) 1 mar 48m ²	k 2 marks
6.	2.4 tins or 2 tins for one coat or 12 litres or complete correct method	1 mark

allow follow through from Question 5

or

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Answers	
3 tins or follow through	2 marks
[their answer to Question 5] x 0.25 rounded up	
73.42575 rounded, unrounded, truncated, or a complete correct method seen (eg 3x20.83x1.175), or (£)10.93575 rounded, unrounded or truncated (total VAT on paint), or (£)3.64525 rounded, unrounded or truncated for VAT only or (£)24.47525 rounded, unrounded or truncated (for cost of tin of paint including VAT)	1 mark
allow follow through from the number of tins	
calculated in first part of this question	or
(£)73.43 or (£)73.42	2 marks
7. Any 6 correct dimensions	1 mark
accept correct dimensions drawn as indicative of	
calculation	or
Correct calculation of scaled dimensions (16cm, 9cm, 4cm, 4cm, 12cm, 13cm) or equivalent for walls AND (3.6cm, 1.4cm) or equivalent for the sink unit.	2 marks
correct scale drawing of either room or sink unit ± 2mm	1 mark or
correct scale drawing of either room of sink drift ± 2mm	2 marks
correct scale drawing of room and sink drift i zillin	ZIIIdIKS
sink unit drawn in a correct position against outer wall	1 mark
8. 1 in 2 or 0.5 or ½ or 50% (not 1:2)	1 mark
1 in 5 or 0.2 or 1/5 or 20% for second line (not 1:5) Or	1 mark or
1 in 10 or 0.1 or 1/10 or 10% (not 1:10)	2 marks
, , , , , , , , , , , , , , , , , , , ,	
9. 5/20 or 0.25 or 25% Or	1 mark or
¼, a quarter, one quarter	2 marks
74, a quarter, one quarter	2 marks
Passion fruit drink only or mean score of 8 only Or	1 mark or
Passion fruit drink with mean score of 8	2 marks
r assisting with mean score of o	Z IIIdi K3
Range is 8	1 mark
Big difference between highest and lowest numbers (or equivalent definition of range without reference to customer scores)	1 mark
or	or
Customers have more different opinions of this	
drink than the other drinks (or equivalent)	2 marks