

Paper Code: FSQN209P

MOCK Highfield Functional Skills Qualification in Mathematics at Level 2



Information for centres and learners

- Learners taking this examination must also complete papercode FSQC209P.
- Only remove the examination paper from the sealed envelope when instructed to do so.
- Under no circumstances should you use an unsealed examination paper.
- Complete ALL questions.
- Use BLACK or BLUE ink.
- You are NOT allowed any assistance to complete the answers. You are NOT allowed to use a CALCULATOR.
- Marks are awarded for SHOWING your WORKING OUT.
- Use a PENCIL, ERASER, RULER and PROTRACTOR (as necessary) when drawing diagrams and charts.
- SIGN the declaration before leaving.

The duration of this examination is 40 MINUTES. The examination consists of 7 QUESTIONS and is worth 17 MARKS.

Complete the fo	llowing						
First Name (in full)							Middle initial
Last Name							
Date of Birth (8 digits)							
Highfield Learner ID							
Approved Centre Number (5 digits)			Nomina (5 digits)	ted Tutor	Number		
Examination Date (8 digits)		NA AS			Is this a resit examination?	YES	NO
Examination Start Time (24 hour clock)	11 15	M M		nation Fir 24 hour clock		c 14	
Learner declarat	ion			the sea	ed the examination		om

- I received no help in answering the questions in this examination paper.
- I am the person stated above on this form.
- I will not discuss the content of the examination with anyone else.

We listen and respond

Learner

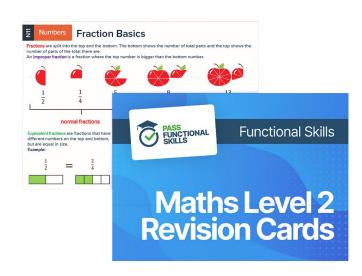
signature:

Non-calculator Test



Functional Skills Products





20 Exam Papers

Revision Cards



Pocket Guide



Mini Tests



1

Calculate:

16+62x4

Write the answer in the box below.

(1 mark)

2

Calculate:

15% of 390

Write the answer in the box below.

(1 mark)

$$10/ = 390 \div 10 = 39$$

 $5/ = 39 \div 2 = 19.5$

Answer: <u>58.5</u>



3

Calculate the median and the mode of this set of data:

15 15 24 A 15 40 32 23 9

Write the answers in the box below.

(2 marks)

Ascending order: 4, 8, 9, 15, 15, 23, 24, 40

Median: _____1 S _____ Mode: _____15



Scenario A

Media

4

You work for Highfield Advertising and Promotions. You are sending out new promotional material to Customers.

- One third are leaflets
- Two fifths are brochures
- The remainder are catalogues

What fraction of the promotional materials are catalogues?

Show your working out and write your answer in the box below.

(3 marks)

Leaflets + brochures =
$$\frac{1}{3} + \frac{2}{5}$$

= $\frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

Catalogues =
$$1 - \frac{11}{15} = \frac{4}{15}$$

 $\frac{4}{15}$ Answer: $\frac{15}{15}$



5

You are looking to buy shares in Highfield Advertising and Promotions. Your manager tells you that:

- you will receive 3% interest on the money you invest
- the interest will be applied annually
- the minimum investment time is 3 years

You decide to invest £950 for 3 years.

Calculate the compound interest you will earn after 3 years.

Show your working out and write the answer in the box below.

(4 marks)

Year 1: 3% of £950:

$$1% = £9.50$$
, $3% = £28.50$
end of year $1 = £950 + £28.50 = £9.78.50$
Year 2 $1% = £9.78.50 = £9.78.50$
 $3% = 4.978.50 = 3 \times 9.78.5 = £29.35.5$

Year 2 1% of £978.50 = £9.785

$$3\%$$
 of £978.50 = $3\times 9.785 = £29.355$
end of year 2 = £978.50 + £29.355
= £1007.855

$$\frac{11.9 \pm 1007.85S}{31. = 3 \times \pm 10.0785S} = \pm 10.07855}{31. = 3 \times \pm 10.0785S} = \pm 30.23565$$



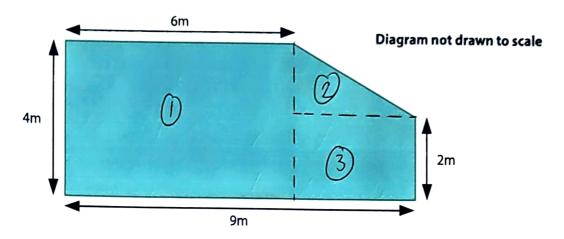
Scenario B

Kennels

6

You have recently rescued two dogs. The dogs need an outside kennel to share.

You see a kennel for sale with the following floor space:

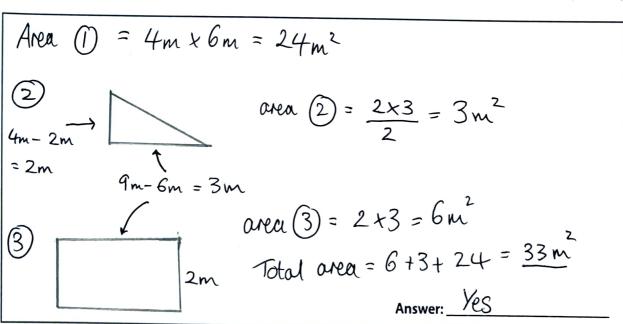


It is recommended that each dog has a floor area of 15m²

Is the kennel big enough for your dogs?

Show your working out and write the answer in the box below.

(4 marks)



Your friend, Joanne, volunteers at the kennels.

There are 12 volunteers in total. Only 8 volunteers are needed per day and they are chosen at random.

The kennels are split into small dogs and large dogs. There are 25 small dogs and 11 large dogs.

Volunteers who are working are allocated a dog at random to walk.

On any given day, what is the probability of your friend Joanne working and being allocated a large dog?

Give your answer as a fraction.

Show your working out and write the answer in the box below.

(2 marks)

Prob(lage dog) =
$$\frac{11}{36}$$

Prob (Joanne worling and large dog)
$$= Prob (Joanne worling) \times Prob (large dog)$$

$$= \frac{8}{12} \times \frac{11}{36} = \frac{88}{432}$$

Answer:
$$\frac{88}{432}$$

END OF ASSESSMENT



For official use only:

	1	2						
Mark(s) available	1	1	3	4	5	6	7	TOTAL
Marker	· ·	'	2	3	4	4	2	17
Moderator								

Marker:	
Date:	Moderator:
- 410.	Date:

Moderator:	
Date:	



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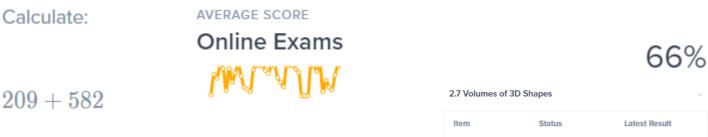
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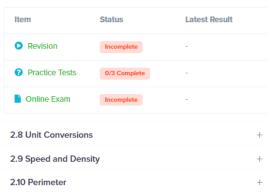
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