

1

Calculate:

$$16 + 6^2 \times 4$$

Write the answer in the box below.

(1 mark)

Answer: _____

2

Calculate:

$$15\% \text{ of } 390$$

Write the answer in the box below.

(1 mark)

Answer: _____

3

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

5 15 24 4 15 40 32 23 9

Write the answers in the box below.

(2 marks)

Median: _____ Mode: _____

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)

Answer: _____

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)

Answer: £ _____

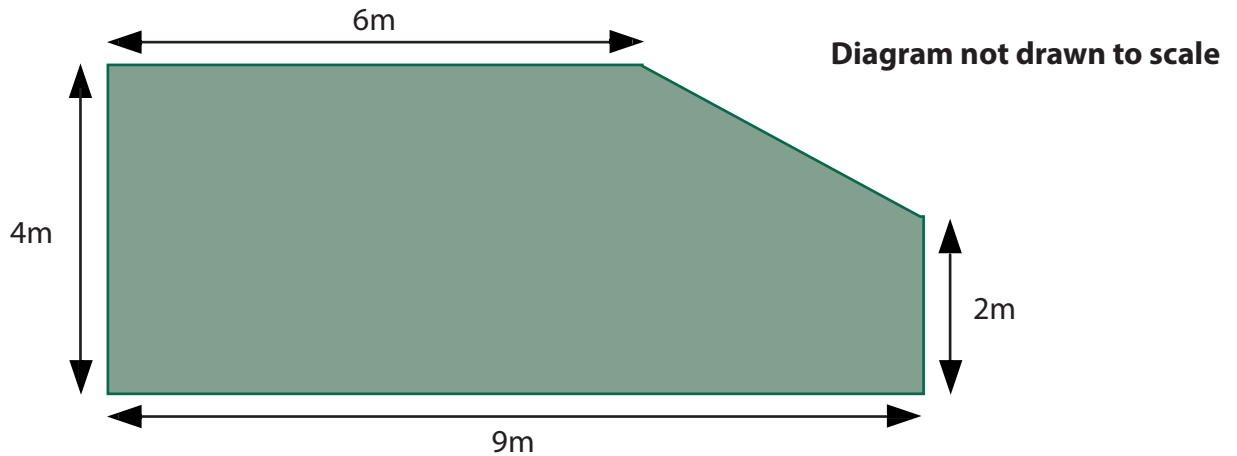
Scenario B

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 15m^2

Is the kennel big enough for your dogs?

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

(4 marks)

Answer: _____

7

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)

Answer: _____

END OF ASSESSMENT

For official use only:

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

Marker:	
Date:	

Moderator:	
Date:	



Level 2

Mathematics

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