

**FOUNDATION TIER
MINI PRACTICE EXAM 3**

**CALCULATOR ALLOWED
20 MINUTES ALLOWED**

1.

(a) Circle the two prime numbers.

2 6 9 13 15 18

(2)

(b) Circle the number that is a factor of 250.

3 4 5 6 8 12

(1)

(c) Circle the number that is not a multiple of 15.

30 45 60 75 90 115

(1)

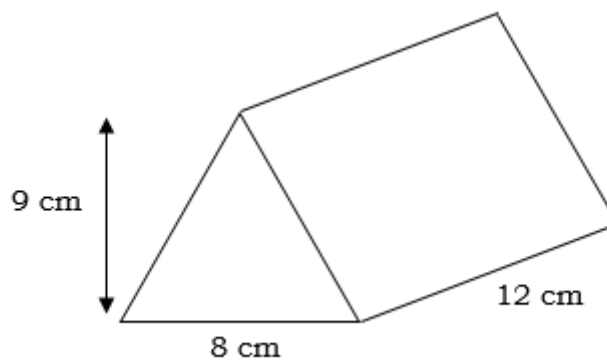
(d) Circle the number that is 5 less than a square number.

2 4 6 8 10 12

(1)

2.

Pictured below is a triangular prism.



(a) How many vertices does the triangular prism have?

(1)

(b) How many edges does the triangular prism have?

(1)

(c) How many faces does the triangular prism have?

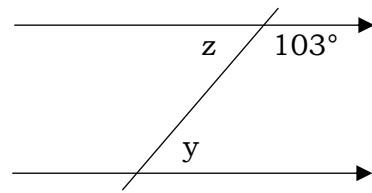
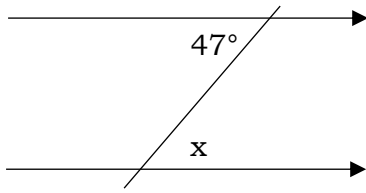
(1)

(d) Work out the volume of the triangular prism.

(3)

3.

Find x , y and z . Give reasons for your answers.



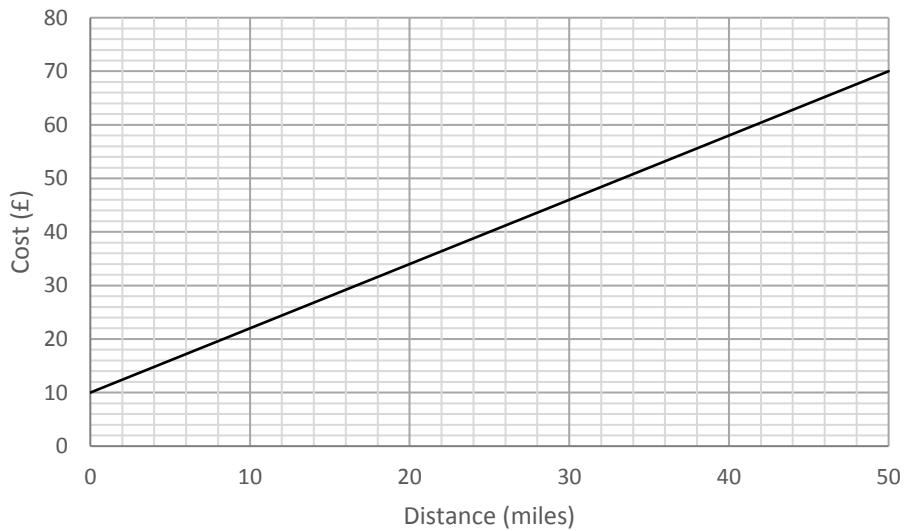
(4)

4.

Tony is going to hire a car to drive to a meeting.

The cost of the hire depends upon how many miles Tony drives.

The graph below shows the cost of the hire for a given number of miles driven.



(a) What is the fixed cost of hiring the car?

(1)

(b) What is the cost, in pounds, per mile driven?

(2)

(c) Tony's meeting is 20 miles away.

He will use the hire car to drive to the meeting and back.

How much will it cost Tony to hire the car?

(2)