

**FOUNDATION TIER
MINI PRACTICE EXAM 8**



**NON-CALCULATOR
20 MINUTES ALLOWED**

1.
Dave says “If you multiply a number by 150 and then divide it by 20, it is the same as multiplying it by 7.5”.
Is Dave correct? Explain your answer.

(2)

2.
Of the fractions $\frac{7}{10}$ and $\frac{11}{15}$, which is closest in value to $\frac{2}{3}$?

(2)

3.
The 51 bus departs the bus station every 20 minutes.
The 52 bus departs the bus station every 12 minutes.
The first 51 bus departs the bus station at 6:50.
The first 52 bus departs the bus station at 7:02.

(a) At what time will a 51 and 52 bus first depart the bus station at the same time?

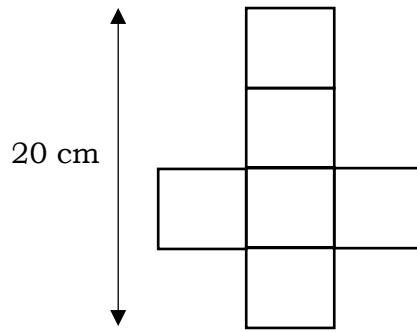
(2)

(b) Callum got on the 51 bus at 8:30 and got off the bus at 8:50.
He travelled a total of 5 miles.
Work out the bus’s average speed for Callum’s journey, in miles per hour.

(3)

4.

Pictured below is a net of a cube.



Work out the volume of the cube.

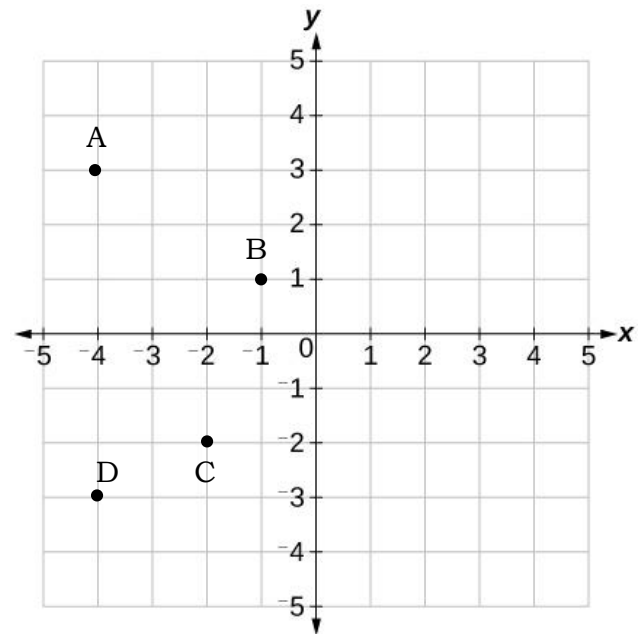
5.

(a) B is the midpoint of point A and point E.
Find the co-ordinates of point E.

(b) DCF is an isosceles triangle.
Write down two possible co-ordinates
of point F.

(2)

(2)



6.

Courtney is organising a holiday for her and four friends.
The flights will cost £28 each way per person.
The hotel rooms cost £45 per night.
The friends will each have one room.
They will stay for 5 nights.

The group have budgeted £1,500 for the holiday.
Have they budgeted enough? Show all your working.