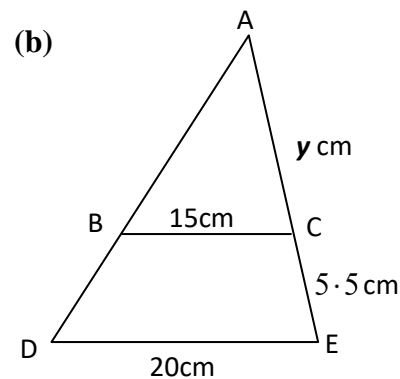
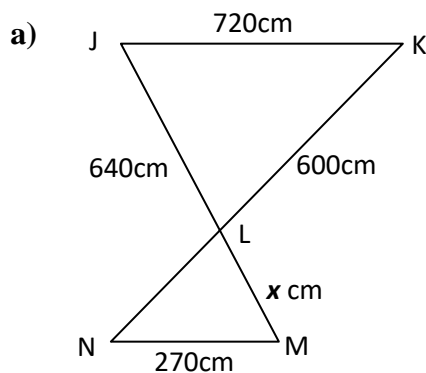


Show all working – Calculator allowed.

Marks

1. Calculate the value of x and y in the diagrams below.

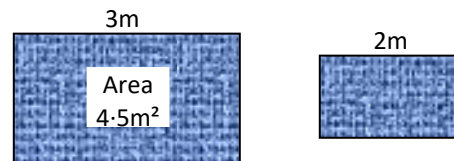


(6)

2. a) These two rugs are mathematically similar.

The area of the larger one is 4.5m^2 .

What is the area of the smaller one?



(3)

3.



These two parcels are mathematically similar. The smaller one has dimensions which are half those of the larger. The smaller box has volume 150cm^3 .

Calculate the volume of the larger.

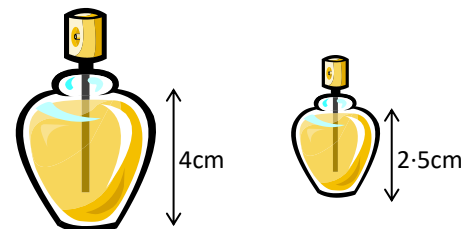
(3)

4. These two perfume bottles are mathematically similar.

The cost depends on the volume of perfume in them.

The larger bottle costs £62.

Find the cost of the smaller bottle correct to the nearest penny.



(3)

Total Marks: 15