



NAME:

DATE:

GEOMETRY

SIMILAR SHAPES

KS3

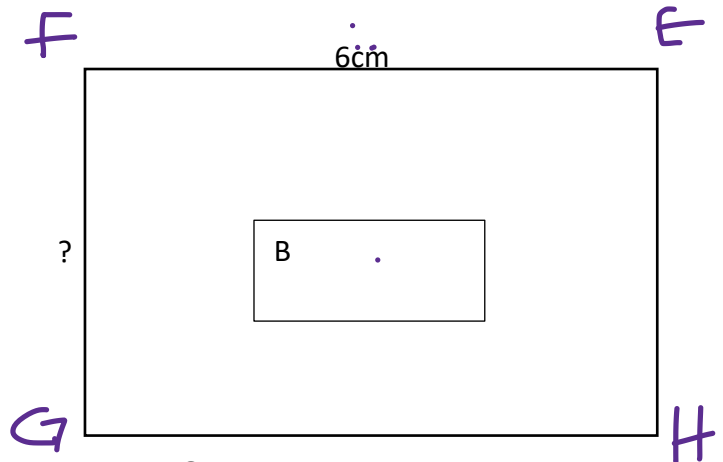
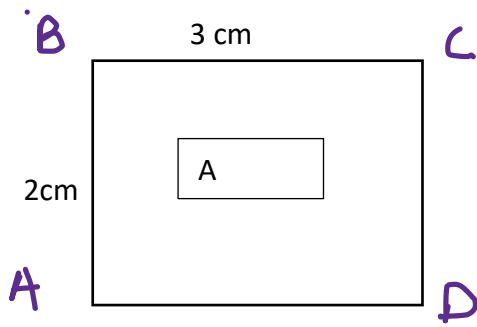
MATHEMATICS

MARK

GRADE

- ANSWER ALL QUESTIONS
- ALL WORKINGS MUST BE SHOWN
- USE THE CALCULATOR WHEN EXPECTED

1.

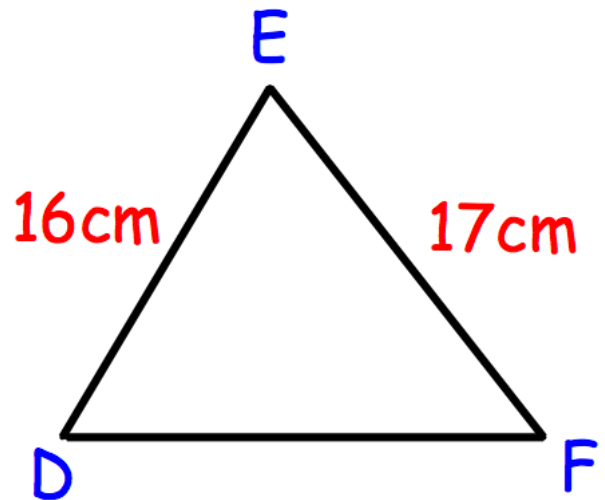
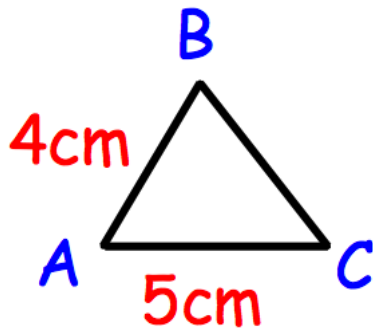


Rectangles $ABCD$ and $EFGH$ are similar. $AB=2\text{cm}$ $BC = 3\text{cm}$ $EF = 6\text{cm}$
Work out the length of FG .

2



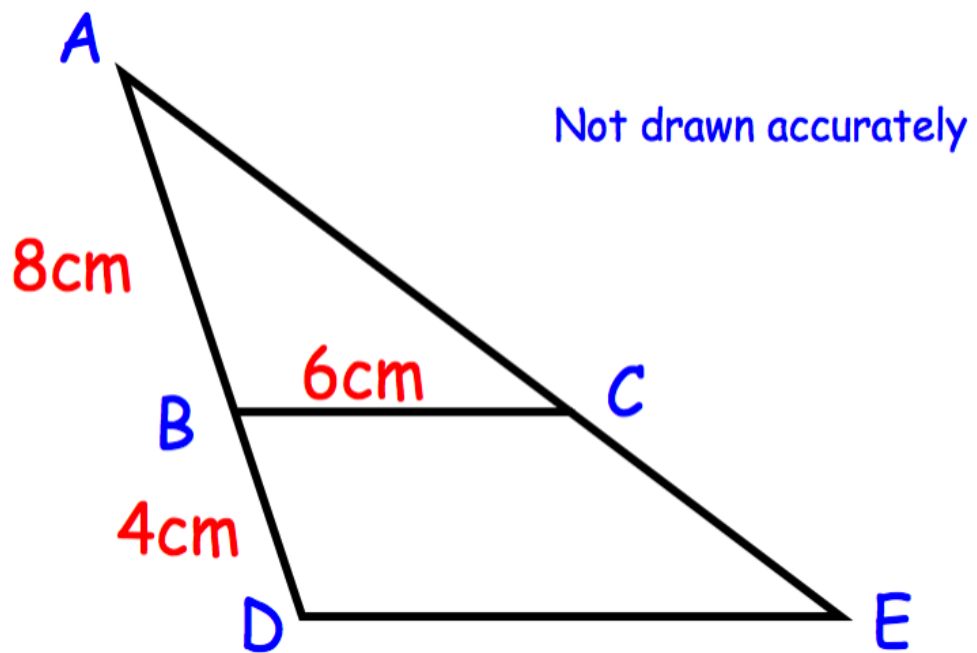
Not drawn
to scale



Triangles ABC and DEF are similar. $AB = 4\text{cm}$ $AC = 5\text{cm}$ $DE = 16\text{cm}$ $EF = 17\text{cm}$.
I) Work out the length DF .

II) Work out the length BC

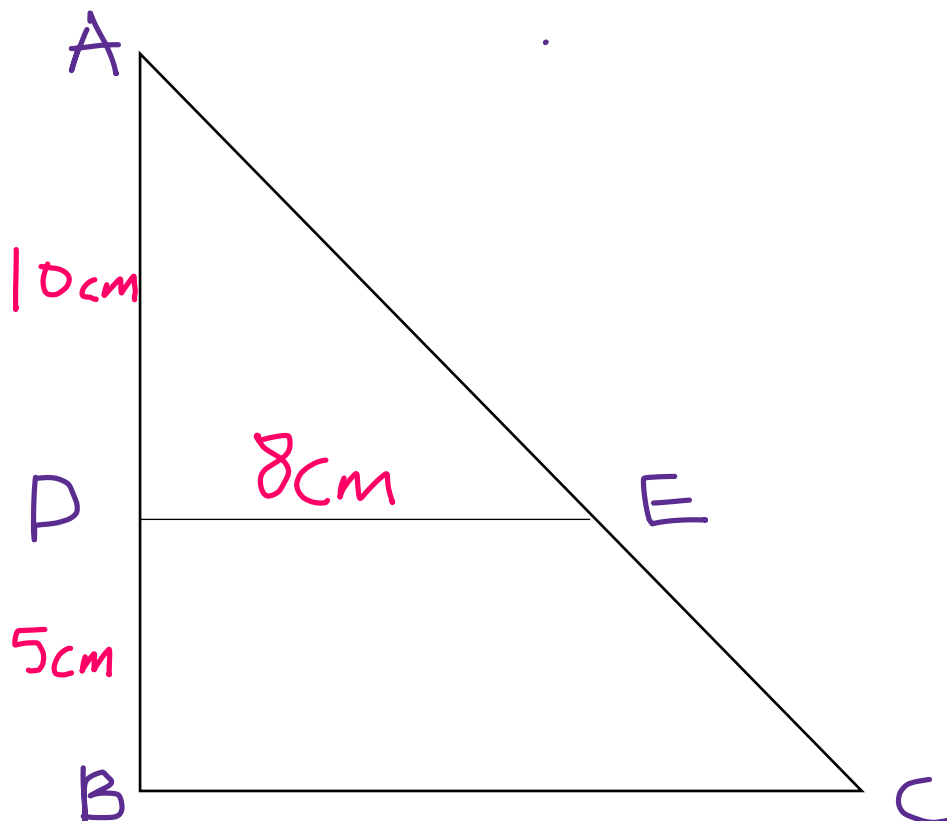
3)



Triangle ABC is similar to triangle ADE . $AB = 8\text{cm}$ $BC = 6\text{cm}$ $BD = 4\text{cm}$

a) Work out the length of DE .

4).

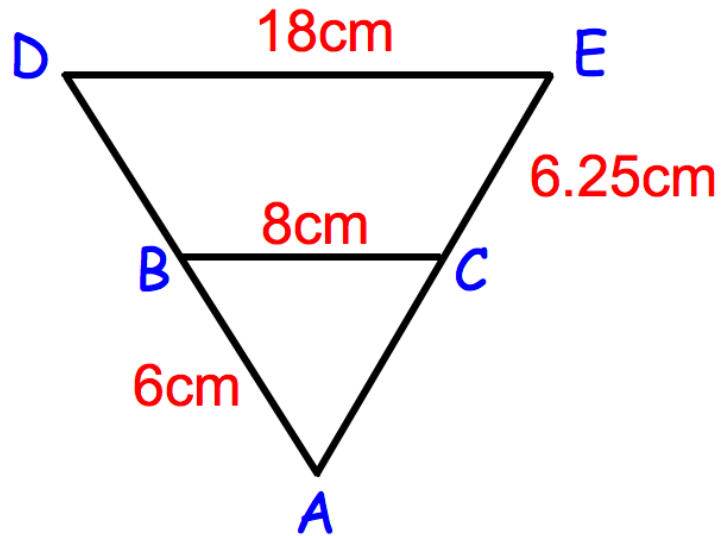


Triangle ABC is similar to triangle ADE . $AD = 10\text{cm}$ $BC = 8\text{cm}$ $BD = 5\text{cm}$

a) Work out the length of DE .

Not drawn accurately

5



Triangle ABC is similar to triangle ADE . $AB = 6\text{cm}$ $BC = 8\text{cm}$ $CE = 6.25\text{cm}$ $DE = 18\text{cm}$

(a) Work out the length of DB .

(b) Work out the length of AC .