Name: _____
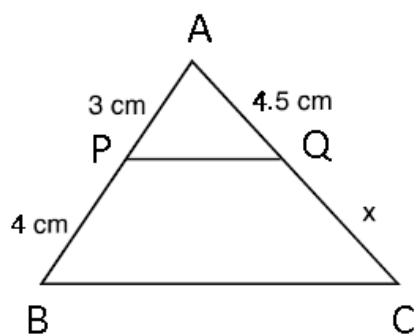
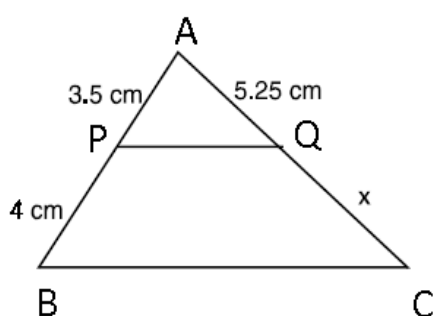## Proportions and Similar Triangles

1)   PQ || BC. Find the value of x in each case.

1)

3 cm   4.5 cm

P   Q

4 cm   x

B   C

A

2)

3.5 cm   5.25 cm

P   Q

4 cm   x

B   C

A

3)

3 cm

P   Q

4.5 cm   4 cm

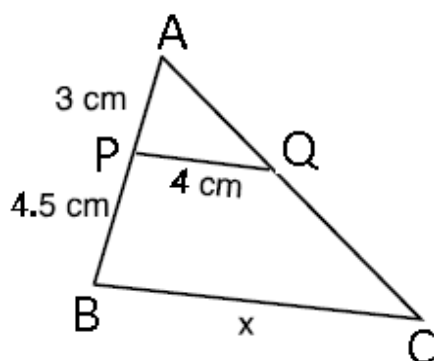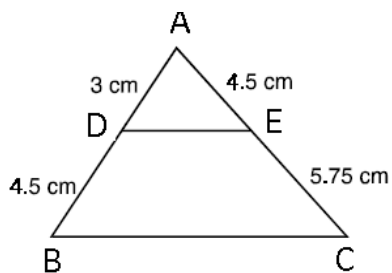B   x   C

A
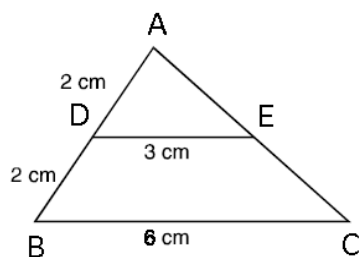
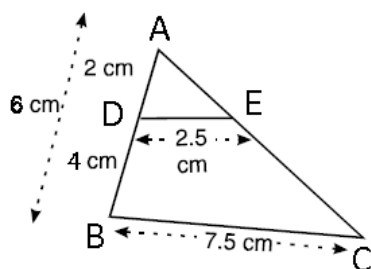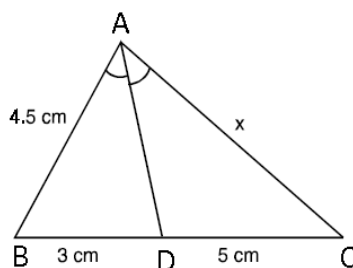2) Find whether DE is parallel to BC or not? Give reasons for your answer.

1)

2)

3)

3) AD is the bisector of ∠A, meeting BC in D. If AB = 4.5 cm, BD = 3 cm, DC = 5 cm, find x.

4) PS is the internal bisector of ∠P of ⌐PQR. The dimensions of some of the sides are given below. Find x.