Name : _____

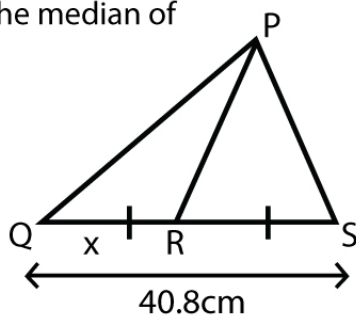Score : _____ Date : _____
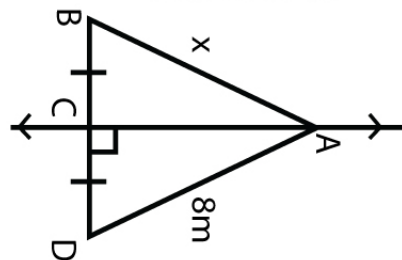
MATH MONKS

Segments in Triangles Worksheet

Find the value of 'x' in the following triangles
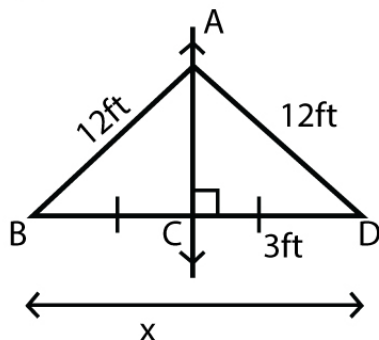
1 Given $\overline{PR}$ is the median of ΔPQS

40.8cm

_____
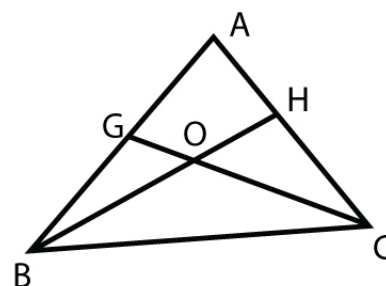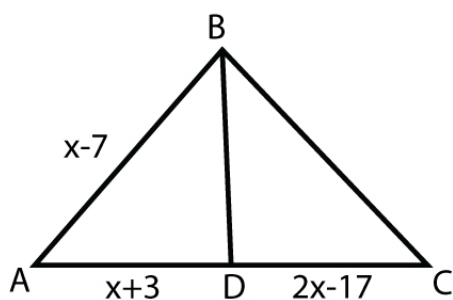
2 Given, $\overline{AC}$ is the perpendicular bisector of BD

x

8m

_____

3 Given, $\overline{AC}$ is the perpendicular bisector of BD

12ft   12ft

3ft

x

_____

4 If O is the centroid of ΔABC, Find $\overline{BH}$ if OH = 16cm.

_____

5 Given, $\overline{BD}$ is a median of ΔABC

x-7

x+3   D   2x-17   C

AD = _____

DC = _____

6 Given, $\overline{CD}$ is the perpendicular bisector. If ∠AEB = 60° and ∠EAB=70°

x

∠BCD = _____

MATH
MONKS
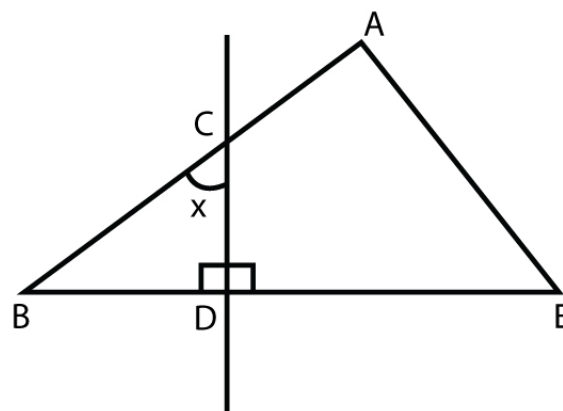
Segments in Triangles Worksheet

Answers

1 Given $\overline{PR}$ is the median of ΔPQS
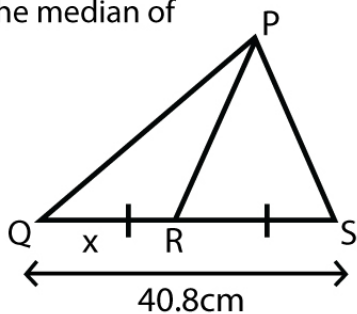
Q — x — R ——— S
40.8cm

__20.4cm__

2 Given, $\overline{AC}$ is the perpendicular bisector of BD

B, C, D, A, x, 8m

__8m__

3 Given, $\overline{AC}$ is the perpendicular bisector of BD

12ft   12ft
B   C   3ft   D
x
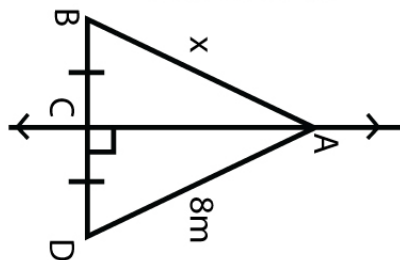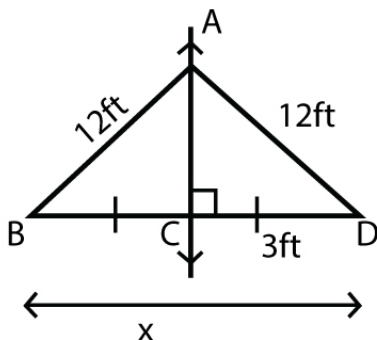
__6ft__

4 If O is the centroid of ΔABC, Find $\overline{BH}$ if OH = 16cm.

A, H, G, O, B, C
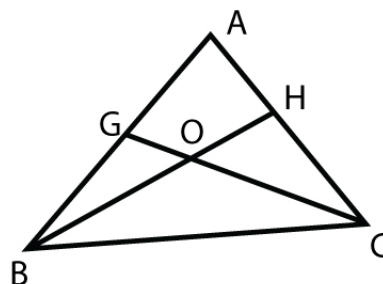
__48cm__

5 Given, $\overline{BD}$ is a median of ΔABC

B
x-7
A   x+3   D   2x-17   C
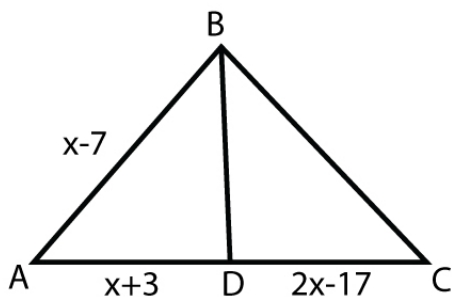
AD = __23__

DC = __23__

6 Given, $\overline{CD}$ is the perpendicular bisector. If $\angle AEB = 60°$ and $\angle EAB = 70°$

A, C, x, B, D, E

$\angle BCD =$ __40°__