

N.I.	$\sim$ 1	
Name:	Class:	
1 191110:	C1433.	*

## Find side lengths of similar figures

Given that each pair of figures below are similar, find the measures of the missing sides. 1. 3. 24 cm 22 cm 6 cm 9 cm 40 cm 2. 4 25 m 45 m 50 m 90 m 20 m 30 m





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1 1 4 111 6	C1433.	*

## Find side lengths of similar figures

	Write a proportion and solve for x.
24 cm 6 cm	6 = x
	24 40
40 cm	Solve for x by cross multiplying.
40 cm	6 x 24 40
Since the triangles are similar,	24 40
The ratios of the corresponding sides	24x = 40(6)
will be equal.	24x = 240
The triangles' shorter sides have	x -> 240= 10 x 24
a ratio of 6/24.	24 24
The triangles longer sides have a ratio of $x/4$	0. $(So, x = 10 cm)$
	Write a proportion and solve for x.  25 = 20 50 x
50 m	Solve for x by cross multiplying.
30 111	25 20 50 ×
	F0 7
	50 ×
X 20 m	
X 20 m	25x = 20(50)
Since the above parallelograms are similar,	$25x = 20(50)$ $25x = 1000$ $x \longrightarrow 1000 - 40 \times 25$
Since the above parallelograms are similar. The ratios of the corresponding sides	25x = 20(50) 25x = 1000
Since the above parallelograms are similar, The ratios of the corresponding sides will be equal.	$25x = 20(50)$ $25x = 1000$ $x \longrightarrow 1000 = 40 \times 25$ $25 = 25$
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