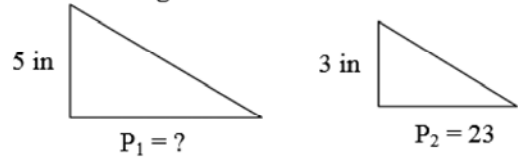


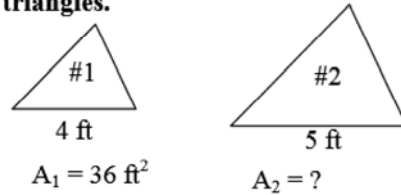
1. The ratio of the sides of two similar rectangles is 5 to 6.

- a. The ratio of their perimeters is _____.
- b. The ratio of their areas is _____.

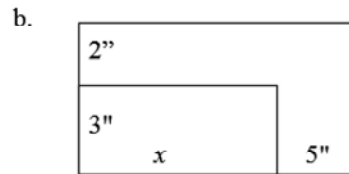
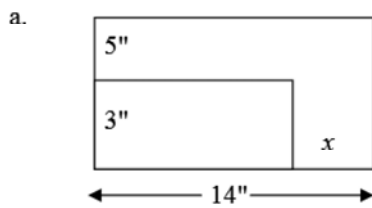
2. Find the perimeter of triangle #1 (P_1) given the similar triangles.
Round to the nearest tenth, if necessary.



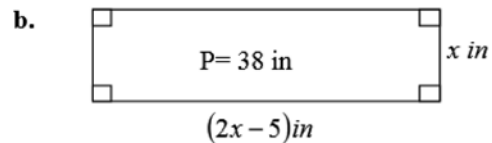
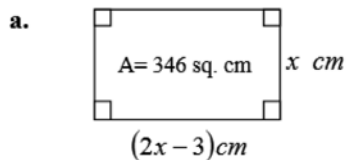
3. Find the area of triangle #2 (A_2) given the similar triangles.
Round to the nearest tenth, if necessary.



4. Given that the rectangles are similar, find x .
Round to the nearest tenth, if necessary.



5. Find x . Round to the nearest tenth, if necessary.



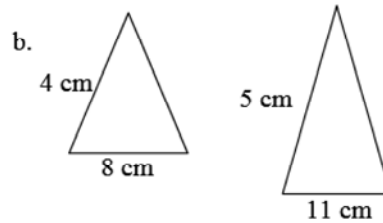
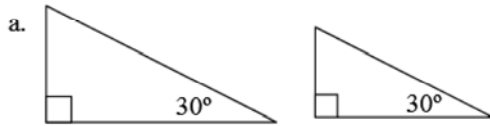
6. The shadow of a 32-foot tree is 50 feet long. Find the height of the man next to the tree if the man is casting a shadow 12 feet long. Round to the nearest tenth, if necessary.

7. **Solve for x . Round to the nearest tenth. Show all work!**

a. $\frac{2x-5}{7} = \frac{6-x}{8}$

b. $\frac{x-3}{4} = \frac{7}{x+3}$

8. **Are the following figures similar? Why or why not?**



9. **Write the equation of the line through the given points in the form stated.**

- a. $(3,-8)(-6,-1)$; point-slope b. $(-2,-6)(5,9)$; slope-intercept

10. Given: $\overline{AB} \parallel \overline{DC}$

Prove: $\triangle AOB \sim \triangle DOC$

Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

