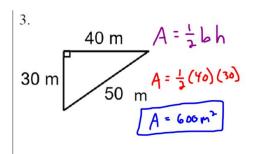
Find the area of the following. Label you answer!

5 ft A = bh 12 ft A = 5(12) $A = 60 \text{ ft}^2$

22.

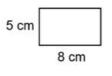
24 cm $A = \frac{1}{2} bh$ $A = 96 cm^{2}$



Draw and label the sides of the similar figures with the given scale factor. Find the perimeter and area.

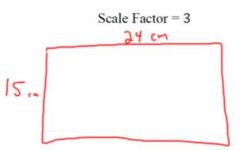
4.

Original Figure



Original Perimeter = 5+8+5+8 = 26 cm

Original Area =
$$5(8) = 40 \text{ cm}^2$$

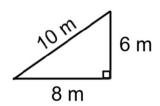


New Perimeter = 15 + 24 + 15+ 24 = 78 cm

How many times bigger is the new area to the original area?

5.

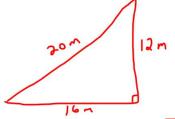
Original Figure



Original Perimeter = 10 + 6 + 8 = 24 m

Original Area =
$$\frac{1}{2}(8)(6) = 24 \text{ m}^2$$

Scale Factor = 2



New Perimeter = 16 +12 + 20 = 48 m

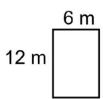
New Area =
$$\frac{1}{2}(16)(12) = 96m^2$$

How many times bigger is the new perimeter to the original perimeter?

Label the sides of the similar figures with the given scale factor. Find the perimeter and area.

6.

Original Figure



Original Area =
$$|\lambda(6)| = \sqrt{12m^2}$$

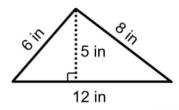
Scale Factor = $\frac{1}{2}$



How many times bigger is the new perimeter to the original perimeter?

7.

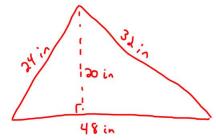
Original Figure



Original Perimeter = 6 + 8 + 12 = 26 in

Original Area =
$$\frac{1}{3}(13)(5) = 30$$
 in

Scale Factor = 4



New Area =
$$\frac{1}{2}(78)(20) = \boxed{980 \text{ in}^2}$$

How many times bigger is the new area to the original area? $\frac{480}{30} = 16 + i$ mes

Answer the following.

8. A rectangle with perimeter of 120 cm is scaled up by a factor of 5. What is the new rectangle's perimeter?

9. A rectangle with area of 40 cm² is scaled up by a factor of 5. What is the new rectangle's area?

10. A triangle with perimeter of 28 ft is scaled down by a factor of $\frac{3}{4}$. What is the new rectangle's perimeter?

11. A triangle with area of 54 cm is scaled down by a factor of $\frac{1}{3}$. What is the new rectangle's area?