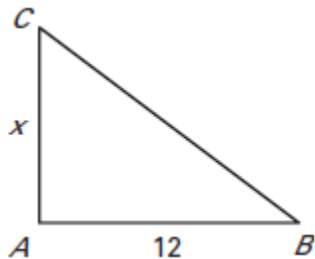


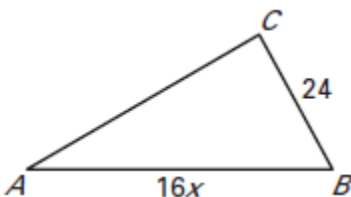
Name \_\_\_\_\_ Hour \_\_\_\_\_

The ratio of two side lengths for  $\triangle ABC$  is given. Solve for  $x$ .

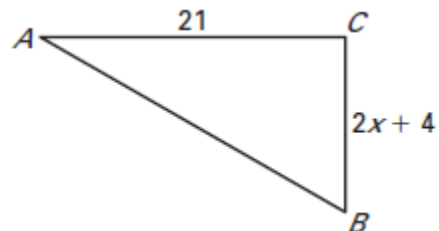
1.  $AC : AB$  is 3 : 4



2.  $AB : BC$  is 2 : 1

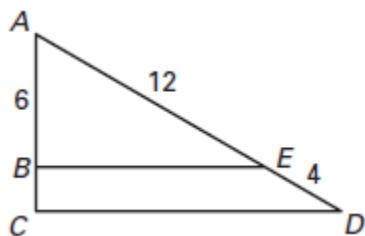


3.  $AC : BC$  is 7 : 4

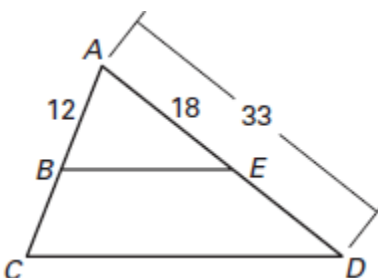


Use the diagram and the given information to find the indicated length.

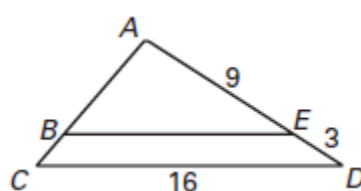
4. Given  $\frac{AB}{BC} = \frac{AE}{ED}$ , find  $BC$ .



5. Given  $\frac{AB}{BC} = \frac{AE}{ED}$ , find  $BC$ .



6. Given  $\frac{AD}{AE} = \frac{CD}{BE}$ , find  $BE$ .



The measures of the three interior angles of a triangle are in the extended ratio given. Find the measure of each of the three interior angles of the triangle.

7. 1 : 7 : 10

8. 2 : 5 : 8

9. 7 : 14 : 15

The perimeter and the extended ratio of the lengths of the three sides of a triangle are given. Find the length of each side of the triangle.

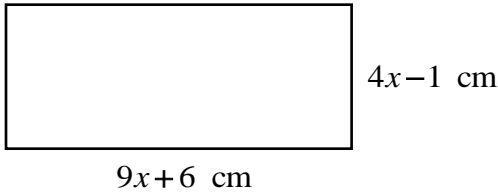
10. Perimeter = 450 cm  
3 : 5 : 7

11. Perimeter = 120 in  
8 : 15 : 17

12. Perimeter = 77 ft  
6 : 7 : 9

## Ratios & Proportions #2

The ratio of the length to the width of the rectangle below is  $12:5$ .



13. Find the length and the width of the rectangle.
14. Find the perimeter of the rectangle.
15. Find the area of the rectangle.

The perimeter and the ratio of the width to the length of a rectangle are given. Find the length and width of the rectangle.

16. Perimeter = 40 ft  
 $w:l = 2:3$

17. Perimeter = 132 in  
 $w:l = 4:7$

The area and the ratio of the width to the length of a rectangle are given. Find the length and width of the rectangle.

18. Area =  $192 \text{ ft}^2$   
 $w:l = 3:4$

19. Area =  $350 \text{ in}^2$   
 $w:l = 2:7$

Use the following information to answer questions 20-23.

In August of 2008, Kelly and Tabi took a trip to England and France. At the time of the trip, the currency exchange rates were 1 U.S. Dollar per 0.54 British pound (£) and 1 U.S. Dollar per 0.68 Euro (€).

20. Before the trip, Kelly decided to exchange \$250 for British pounds. How many pounds did she receive?
21. While in London, the girls decided to tour the Tower of London. Tickets cost £16.50 per adult. How much did two tickets cost in U.S. Dollars?
22. After several days in England, the girls went to Paris to meet up with Kelly's mother. While there, all three decided to visit the Louvre. Tickets cost €9 per adult. How much did three tickets cost in U.S. Dollars?
23. Tabi returned home with €15 which she took to the bank to exchange for U.S. Dollars. How much did she have after exchanging the Euros?