Ready, Set, Go!

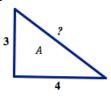
Ready

Topic: Pythagorean Theorem and ratios of similar triangles

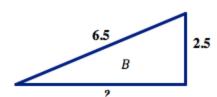
Find the missing side in each right triangle. Triangles are not drawn to scale.



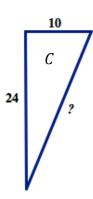
1.



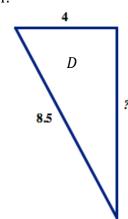
2.



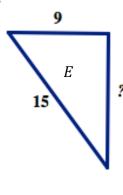
3.



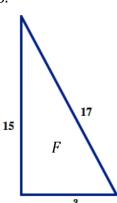
4.



5.



6.



7. Based on ratios between side lengths, which of the right triangles above are mathematically similar to each other? Provide the letters of the triangles and the ratios.

NAME: Period:

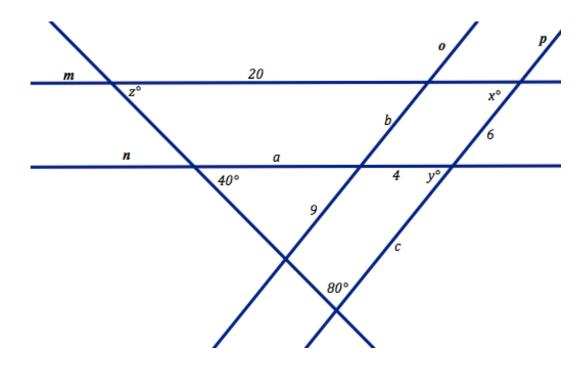
Similarity & Right Triangle | 6.5 **Trigonometry**

Set

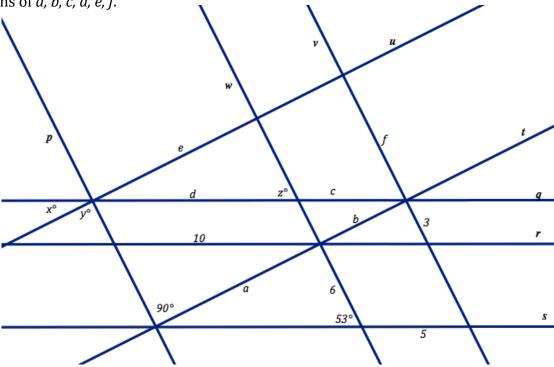
Topic: Using parallel lines, and angle relationships to find missing values.

In each of the diagrams use the given information provided to find the missing lengths and angle measurements.

8. Line $m \parallel n$ and $o \parallel p$, find the values of angles x, y and z. Also, find the lengths of a, b and c.



9. Line $q \parallel r \parallel s$ and $t \parallel u$ and $p \parallel w \parallel v$, find the values of angles x, y and z. Also, find the lengths of a, b, c, d, e, f.



Go

Topic: Solve equations including those including proportions

Solve each equation below.

10.

$$3x - 5 = 2x + 7$$

11.

$$\frac{5}{7} = \frac{x}{21}$$

12.

$$\frac{3}{x} = \frac{18}{5x+2}$$

13.

$$\frac{1}{2}x - 7 = \frac{3}{4}x - 8$$

$$17 + 3(x - 5) = 2(x + 3)$$

15.

$$\frac{x+5}{6} = \frac{3(x+2)}{9}$$

16.

$$x + 2 + 3x - 8 = 90$$

17.

$$\frac{5}{12} = \frac{x}{8}$$

18.

$$\frac{4}{5} = \frac{x+2}{15}$$