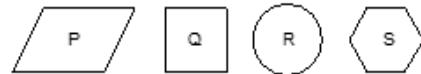


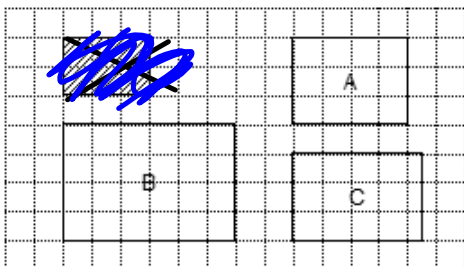
10. Which shapes have at least 2 lines of symmetry?

- a. Shapes P, Q, S
- b. Shapes P, S

- c. Shapes Q, R, S
- d. Shapes P, Q, R, S



2. Which of rectangles A, B, and C are scale diagrams of the ~~shaded~~ *each other* triangle? For each scale diagram you identify, state the scale factor.

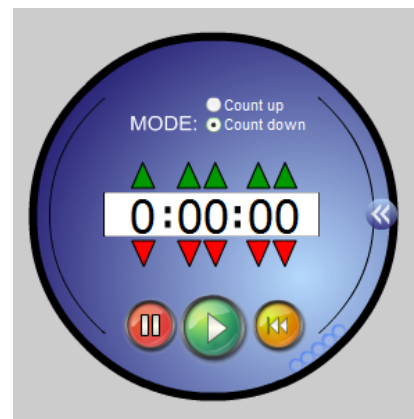


A to B

B to C

C to A

Long short





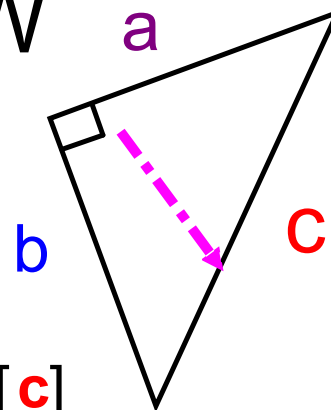
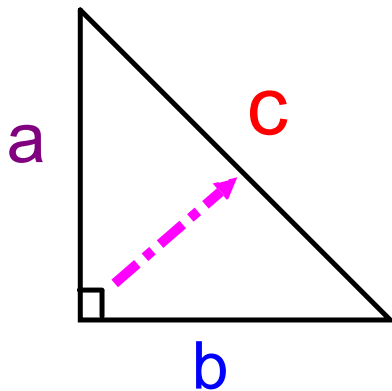
Unit 8



Circle Geometry



REVIEW



Hypotenuse [**c**]

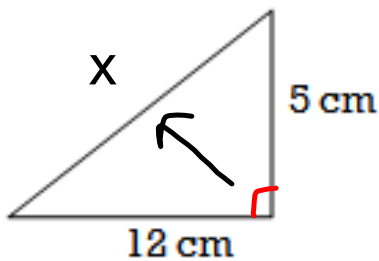
$$c^2 = a^2 + b^2 \leftarrow$$

$$a^2 = c^2 - b^2$$

*the longest side

*opposite the right angle

- Find the measurement of the unknown side.
- Draw an arrow to the hypotenuse.



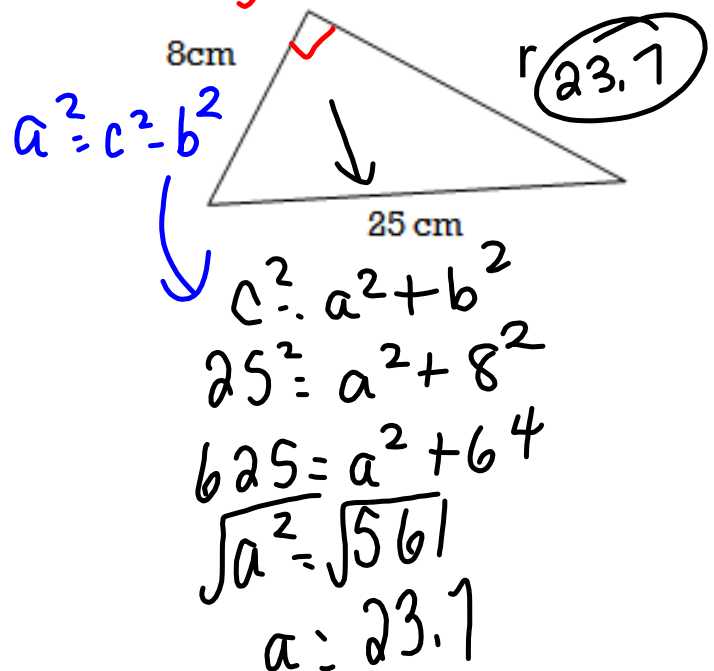
$$c^2 = a^2 + b^2$$

$$c^2 = 12^2 + 5^2$$

$$c^2 = 144 + 25$$

$$\sqrt{c^2} = \sqrt{169}$$

$$c = 13$$



$$a^2 = c^2 - b^2$$

$$c^2 = a^2 + b^2$$

$$25^2 = a^2 + 8^2$$

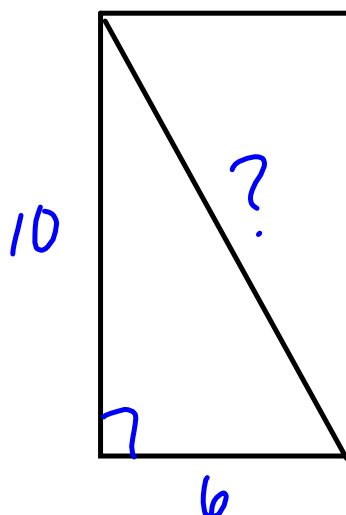
$$625 = a^2 + 64$$

$$\sqrt{a^2} = \sqrt{561}$$

$$a = 23.1$$

A rectangle has base 6 and height 10.

What is the length of the diagonal?



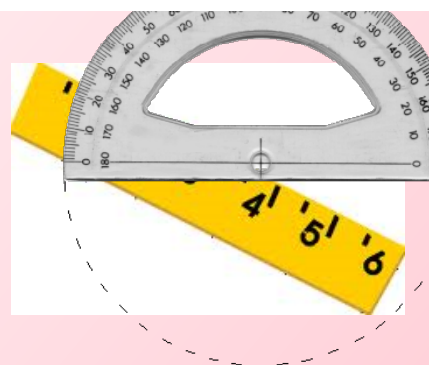
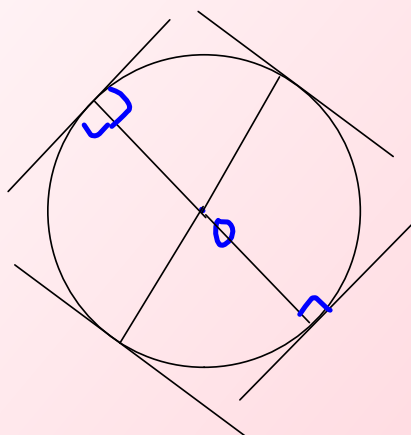
$$c^2 = a^2 + b^2$$

$$c^2 = 10^2 + 6^2$$

$$c^2 = 100 + 36$$

$$\sqrt{c^2} = \sqrt{136}$$

$$c = 11.7$$



1. Label the center "O"
2. Draw a radius that touches the circle only at the endpoint of the radius.
3. Draw a line to touch the radius and passes on the outside of the circle
4. Repeat steps 2-3 THREE times
5. Measure the angle between the radius and the line.



* A line that intersects a circle at only **ONE POINT** is a **tangent** to the circle

*The point where the tangent intersects the circle is the **point of tangency**.

*Line AB is a **TANGENT** to the circle with center O
Point P is the point of tangency

