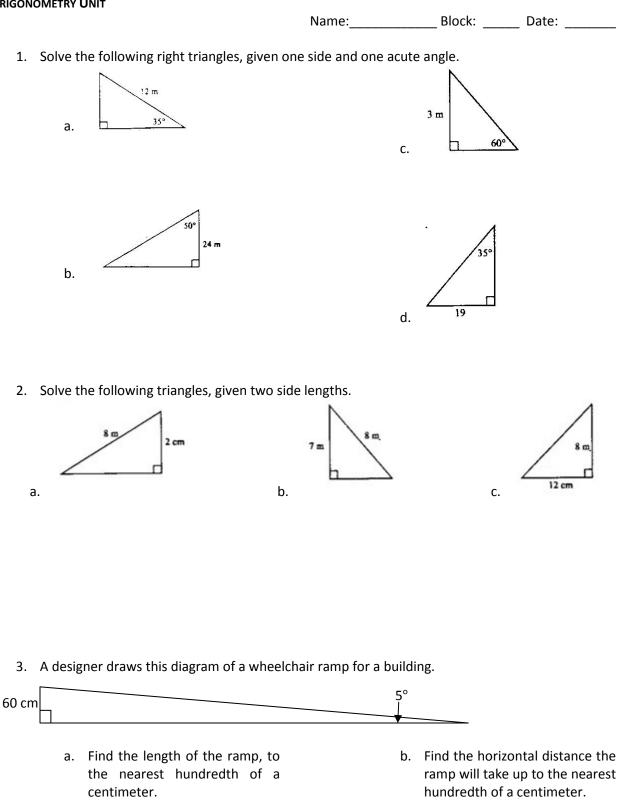
WS 10-2-4 "APPLYING TRIG RATIOS"





WS 10-2-4 "APPLYING TRIG RATIOS"

TRIGONOMETRY UNIT

Name:_____ Block: ____ Date: _____

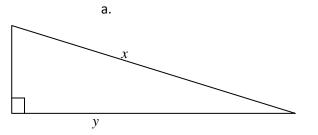
Write the angle to the nearest degree.

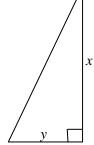
- 4. A plane leaves the airport and flies 150 km due west to pick up supplies. It then flies 300 km due north to a mining camp. When the plane is at the mining camp:
 - a. how far is it from its airport to the nearest km?b. what is the measure of the angle between the path it took due north and the path it will take to return directly to the airport?

- 5. In \triangle ABC, \angle C = 90°, AB = 12 cm and AC = 10 cm. Calculate the measure of \angle ABC.
- 6. In \triangle XYZ, \angle Z = 90°, XY = 12 cm and \angle Y = 10°. Calculate the length of side YZ.

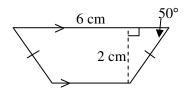
7. Using a ruler, measure the length of side x. Using a protractor, measure one of the unknown angles. Use a trig ratio to determine the length of side y.

b.





8. Calculate the perimeter and area of this isosceles trapezoid to the nearest tenth.



9. A mirror has the shape of a regular decagon. The distance from one vertex to the opposite vertex, measured through the centre of the mirror, is approximately 50 cm. Determine the perimeter of mirror to the nearest tenth of a cm.