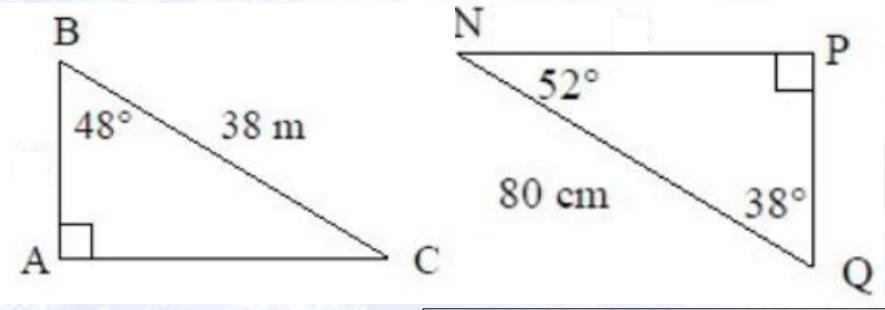
Thursday, April 18, 2019

- · Warm-up
 - Copy the triangles on your paper
 - Mark an angle of interest (the one you know)
 - Label the sides (hypotenuse, opposite, adjacent)



Finding a missing side

Objectives

Content: I will use trigonometric ratios to solve triangle problems with missing angles and sides.

Social: I will participate in class activities and work through frustration.

8 44.253 Sino = OPP label everything Mark what I 49,253 = 9 know treed to 28.239 m know interest sides Sin(52): n 38 (05(48)= c Thouse ratio Sin, cos, tan 0) jubstitute 25.426m=C 63.040 = n

Objectives

Content: I will use trigonometric ratios to solve triangle problems with missing angles and sides.

Social: I will participate in class activities and work through frustration. **Language**: I will translate word problems into a picture so that trigonometric ratios are easier to use.

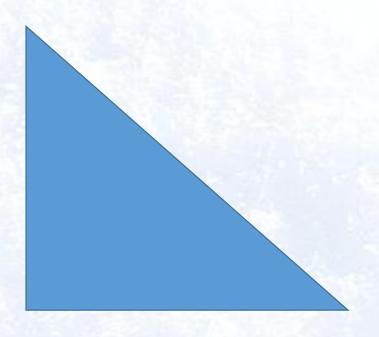
c. $\angle A = 31^{\circ}, b = 8 \text{ in.}$

Objectives

Content: I will use trigonometric ratios to solve triangle problems with missing angles and sides.

Social: I will participate in class activities and work through frustration.

d. $\angle A = 70^{\circ}, c = 14 \text{ cm}$



Objectives

Content: I will use trigonometric ratios to solve triangle problems with missing angles and sides.

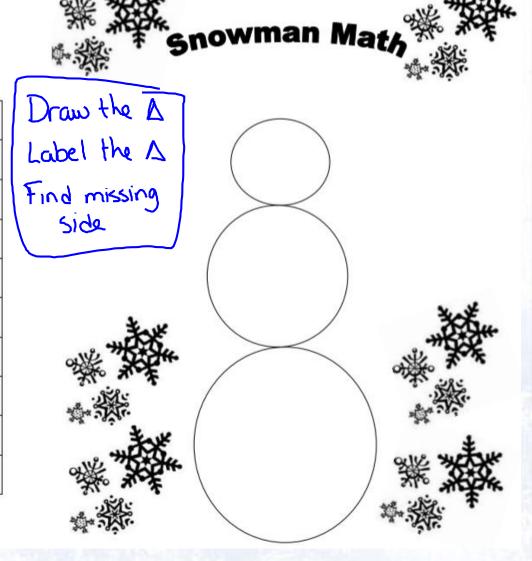
Social: I will participate in class activities and work through frustration.

Soh Cah Toa

Snowman Math

Use the given information to find the missing side in each triangle

Round your answer to the nearest tenth	. Circle the correct answer then cold	or your snowman correctly.
1. $m \angle A = 71^{\circ}, a = 16, c = ?$	Top Hat 5.5	Toboggan 3.9
2. $m \angle C = 19^{\circ}, b = 12, c = ?$	Eyelashes 2.1	No Eyelashes 3.9
3. $m \angle A = 62^{\circ}, \alpha = 14, c = ?$	Round Nose	Triangular Nose
4. $m \angle A = 59^{\circ}, b = 14, a = ?$	Mouth with 4 dots	Mouth with 3 dots
5. $m \angle C = 49^{\circ}, b = 12, a = ?$	Striped Scarf 7.9	Solid Scarf
6. $m \angle A = 69^{\circ}, c = 19, a = ?$	2 buttons on belly 50.4	3 buttons on belly 49.5
7. $m \angle A = 34^{\circ}, b = 19, c = ?$	C Ears D	No ears
8. $m \angle A = 17^{\circ}, b = 20, a = ?$	OOGlasses 5.8	No glasses
9. $m \angle C = 61^{\circ}, a = 34, b = ?$	Right Hand Up	Right Hand Down
10. $m \angle A = 47^{\circ}, c = 37, b = ?$	Left Hand Up 68.4	Left Hand Down 54.3



Objectives

Content: I will use trigonometric ratios to solve triangle problems with missing angles and sides.

Social: I will participate in class activities and work through frustration.

Route 9 Miles 40 miles

Note: Figure not drawn to scale.

Exit Slip

The figure shows the route that Max currently takes to work and back home every day. Assuming an average gas consumption of 20 miles per gallon and a 5-day workweek, how many gallons of gas will Max save per week by taking the expressway to and from work each day instead of his current route?

- A. 2
- B. 4
- **C**. 8
- D. 10.25

Objectives

Content: I will describe the relationships between sides and angles of a right triangle using trigonometry. **Social**: I will listen well and take good notes.

Language: I will clearly write vocabulary in a way that I can understand.