## 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.
Language: I will translate word problems into a picture so that trigonometric ratios are easier to use.

$38 \cdot \sin (48)=\frac{b}{38} 38$
(1) label evergihing
(2) Mark what I
know thee to nd to

$$
49.253=q
$$

know $\begin{gathered}\text { ans. of of or } \\ \text { inters } \\ \text { side }\end{gathered}$
$38 \cdot \cos (48)=\frac{c}{38} \cdot 38$
(3) Chose ratio
$\sin (52)=\frac{n}{80}$
(4) Substitute
$63.040_{\mathrm{cm}}=n$
(5) Solve

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



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



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C Use the given information to find the missing side in each triangle.
Round your answer to the nearest tenth. Circle the correct answer then color your snowman correctly.

Draw the $\triangle$
Label the $\Delta$
Find missing
side


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## Exit Slip



Note: Figure not drawn to scale.
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.

