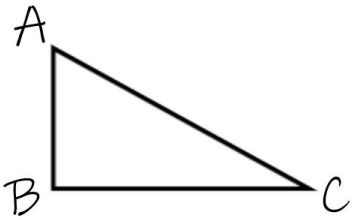
Name: _____ Date: _____

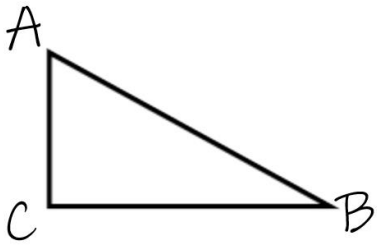
Trigonometry Ratios – Classwork

Draw ΔABC where $\angle ABC = 90°$, $AB = 8$, $BC = 15$, and $AC = 17$.



1. What is tan C?
2. What is sin A?

Draw ΔABC where $\angle ACB = 90°$, $AC = 5$, and $CB = 12$.



3. What is the length of AB?
4. What is cos A?
5. What is tan B?

Draw ΔCAT where $\angle ATC = 90°$, $CA = 53$, and $CT = 28$.

6. What is the length of AT?
7. What is sin C?
8. What is tan A?

Draw ΔABC where $\angle B = 90°$ and $\sin A = \frac{12}{20}$.

9. What is the length of AB?
10. What is tan A?
11. What is cos A?

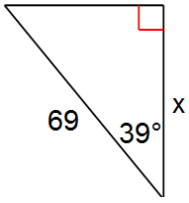
Draw ΔHAT where $\angle H = 90°$ and $\tan T = \frac{12}{35}$.

12. What is the length of AT?
13. What is sin A?
14. What is cos T?

In the following problems, DRAW stick-man standing where the angle is and MARK each given side as A (*adjacent*), O (*opposite*), or H (*hypotenuse*). Then TELL which TRIG RATIO you have.
You will NOT be solving the problem for x (we haven't learned how YET).

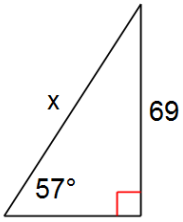
15. Which trig ratio is represented?

A. SIN
B. COS
C. TAN



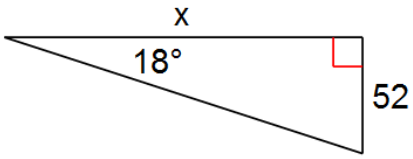
16. Which trig ratio is represented?

A. SIN
B. COS
C. TAN



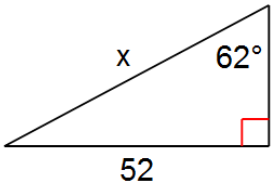
17. Which trig ratio is represented?

A. SIN
B. COS
C. TAN



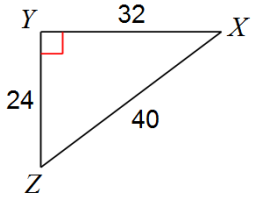
18. Which trig ratio is represented?

A. SIN
B. COS
C. TAN

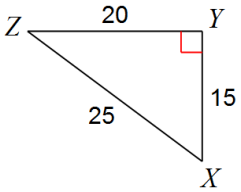


Find each ratio and be sure to reduce, if possible.

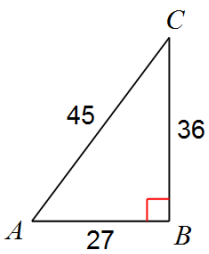
19. Tan Z



20. Sin X



21. Cos A



22. Sin C