Unit 5 Day 8 – Solving Right Triangles Practice   Name:_____
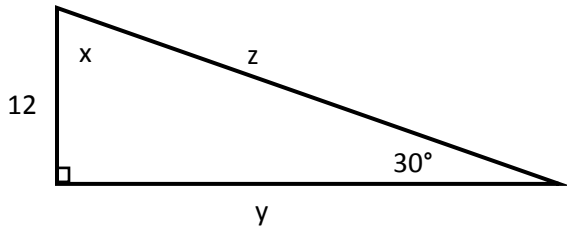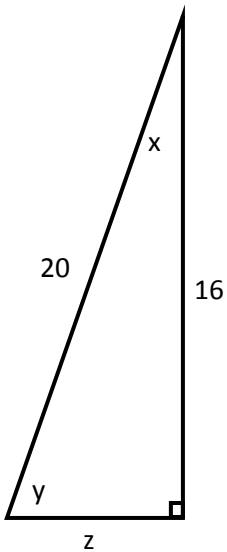
Example 1: Given the tringle below, which of the following methods could be used to solve for x, y, and/or z
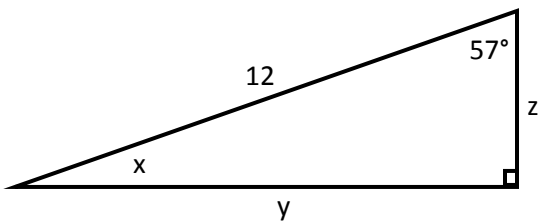

Pythagorean Theorem   Yes or No

    If yes, which variable(s) can I solve for _____

30-60-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

45-45-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

Right Triangle Trigonometry   Yes or No

    If yes, which variable(s) can I solve for _____

Example 2: Given the tringle below, which of the following methods could be used to solve for x, y, and/or z
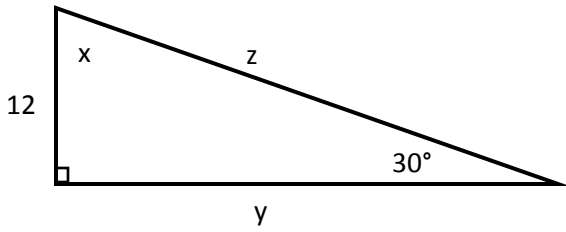

Pythagorean Theorem   Yes or No

    If yes, which variable(s) can I solve for _____

30-60-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

45-45-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

Right Triangle Trigonometry   Yes or No

    If yes, which variable(s) can I solve for _____

Example 3: Given the tringle below, which of the following methods could be used to solve for x, y, and/or z

Pythagorean Theorem   Yes or No

    If yes, which variable(s) can I solve for _____

30-60-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

45-45-90 Triangle   Yes or No

    If yes, which variable(s) can I solve for _____

Right Triangle Trigonometry   Yes or No

    If yes, which variable(s) can I solve for _____

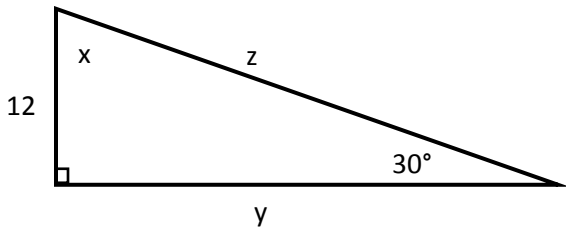You try #1: Solve for x, y, and z using the method of your choice.

x

z

12

30°

y

x = _____

y = _____

z = _____

You try #2: Solve for x, y, and z using a different method, formula, or strategy than you did in You Try #1.
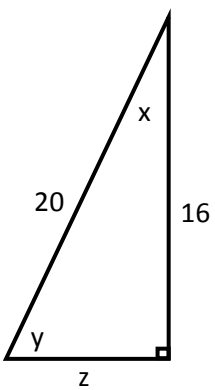
x

z

12

30°

y

x = _____

y = _____

z = _____

What impact did your choice of method have on your final answer and the overall difficulty of the problem?

_____

_____

You try #3: Solve for x, y, and z using the method of your choice.
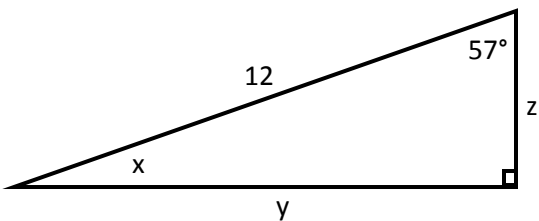
x

20

16

y

z

x = _____

y = _____

z = _____

You try #4: Solve for x, y, and z using the method of your choice.

57°

12

z

x

y

x = _____

y = _____

z = _____