

1-3 Pythagorean Theorem and Distance Formula

Name: _____

Time Start: _____ Finish: _____

Total Time = _____

Remember that the Pythagorean theorem states that $a^2 + b^2 = c^2$, with a and b being the legs of the right triangle and c being the hypotenuse. Tell the measurement of the missing side of each triangle below.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Figure 1

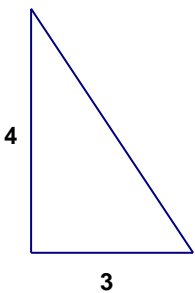


Figure 2

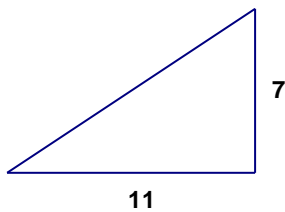


Figure 3

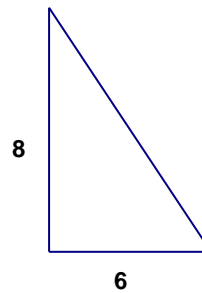


Figure 4

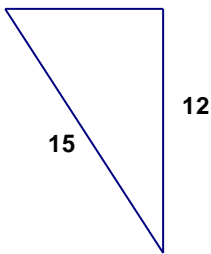


Figure 5

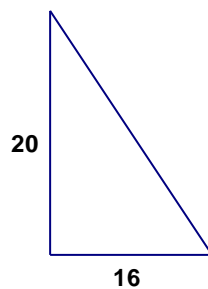
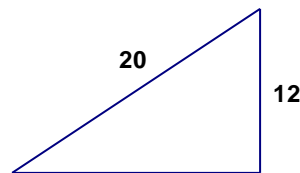


Figure 6



For 7 – 12, Find the distance between the two given points and use your calculator to find each square root. Round your answer to the nearest tenth.

_____ 7. (1, 3) to (4, 7).

_____ 8. (-1, 5) to (-4, 7).

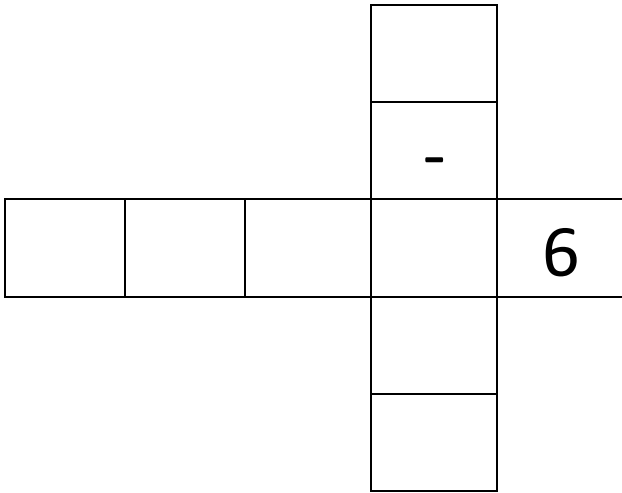
_____ 9. (3, 3) to (3, 8).

_____ 10. (-11, -3) to (-9, 1).

_____ 11. If you walk 8 miles due East and 6 miles due South, how far from the starting point are you?

_____ 12. If you walk 3 miles due North and 4 miles due West, how far from the starting point are you?

Mabble 1



3 3 6 0 \wedge^2 = =