

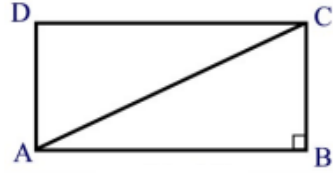
Name _____ Date _____ Section _____

Geometry + LAB

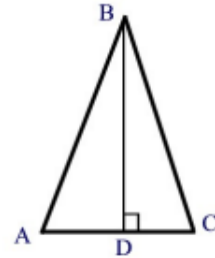
Early Unit Review

Draw and label diagrams and show all work. Leave answers in simplest radical form.

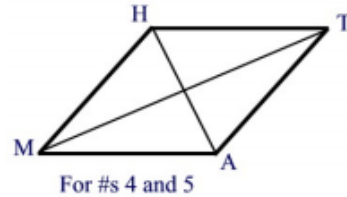
1. If diagram at the right is rectangle $ABCD$, with $AB = 17$ and $BC = 7$, find AC .



3. In $\triangle ABC$ at the right, $AB = CB$, and $\overline{BD} \perp \overline{AC}$.
If $AB = 18$ and $AC = 10$, find BD .



4. In rhombus $MATH$, the diagonals measure 16 and 30.
Find the length of a side of the rhombus.

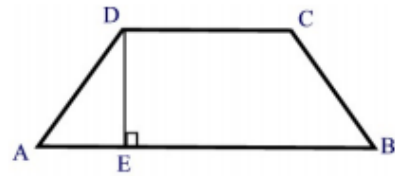


5. In rhombus $MATH$, the diagonals intersect at point E . If $MH = 16$ and $AE = 4$, find MT .

6. The length of the side of a square is 25. Find the length of the diagonal of the square.

7. Charlie is laying the foundation for a rectangular barn. The foundation's length measures 60 feet, the width measures 28 feet, and one diagonal measures 72 feet. Is Charlie's foundation "square"? (Is there a right angle in each corner?)

8. In isosceles trapezoid $ABCD$, $AB = 20$, $CD = 10$ and $m\angle A = 45^\circ$. Find AD .



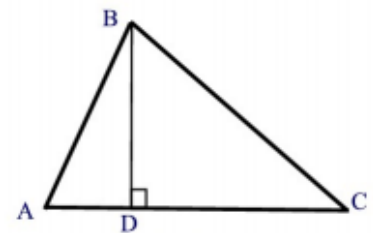
9. The diagonal of a square has a length of 42 cm. Find the perimeter of the square.

11. In the diagram of rhombus $ABCD$, $AB = 20$ and $m\angle BAD = 60^\circ$. Find BD .

In $\triangle ABC$, $BC = 20$, $m\angle A = 60^\circ$, $m\angle C = 30^\circ$ and $\overline{BD} \perp \overline{AC}$.

14. Find BD .

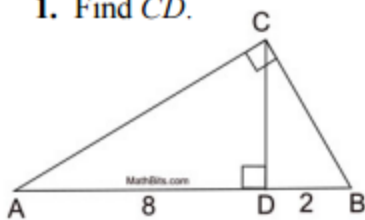
15. Find AB .



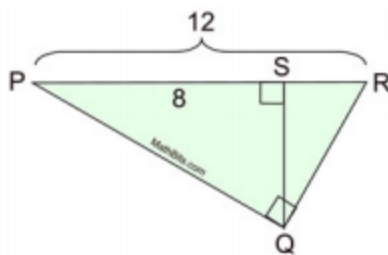
For #s 14 & 15

Solve for the given side length.

1. Find CD .



3. Find QR .



5. Find x .

