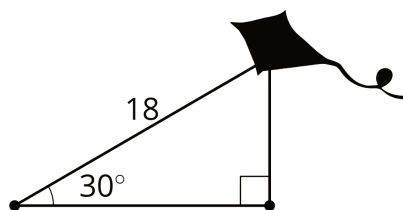
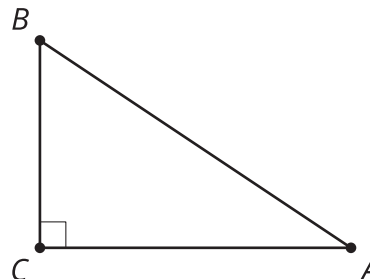


Lesson 5 Practice Problems

1. A triangle has sides with lengths 8, 15, and 17.
 - a. Verify this is a Pythagorean triple.
 - b. Approximate the acute angles in this triangle.
2. Kiran is flying a kite. He gets tired, so he stakes the kite into the ground. The kite is on a string that is 18 feet long and makes a 30 degree angle with the ground. How high is the kite?



3. Triangle ABC has a right angle at C . Select **all** measurements which would mean it has a hypotenuse with a length of 10 units.



- A. Angle A is 20 degrees, BC is 2 units
- B. AC is 7 units, BC is 3 units
- C. Angle B is 50 degrees, BC is 4 units
- D. Angle A is 30 degrees, BC is 5 units
- E. AC is 8 units, BC is 6 units

4. What is a reasonable approximation for angle B if the ratio of the adjacent leg divided by the hypotenuse is 0.45?

- A. 27 degrees
- B. 30 degrees
- C. 60 degrees
- D. 63 degrees

(From Unit 4, Lesson 4.)

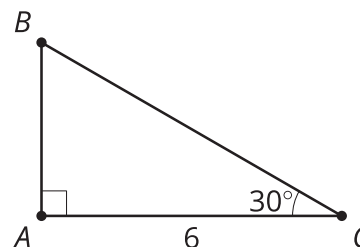
5. Estimate the values to complete the table.



angle	adjacent leg \div hypotenuse	opposite leg \div hypotenuse	opposite leg \div adjacent leg
A	0.31	0.95	3.1
C			

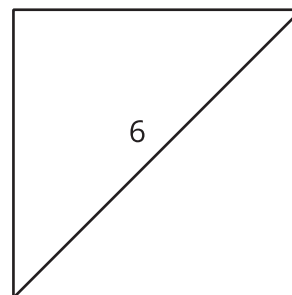
(From Unit 4, Lesson 4.)

6. What is the length of side AB ?



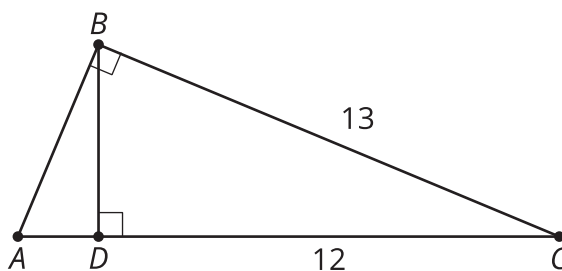
(From Unit 4, Lesson 3.)

7. What is the length of the square's side?



- A. 3 units
- B. $\frac{6}{\sqrt{2}}$ units
- C. $6\sqrt{2}$ units
- D. 12 units

8. Find the lengths of segments AD and BD . Then check your answers using a different method.



(From Unit 3, Lesson 13.)