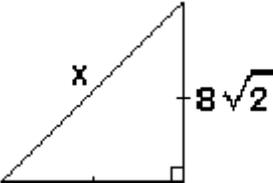


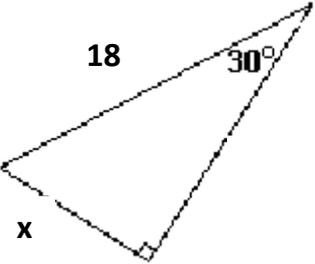
Modifying Assessments- Geometry

Directions: Modify this low cognitive demand problem to a higher cognitive demand problem. Show the new problem on the right and explain your strategy or strategies you used to modify the problem on the left.

LOW cognitive demand problem	HIGH cognitive demand problem
<p>2. What is the approximate value of x?</p> <p>a) 11.3 b) 16.0 c) 19.6 d) 22.6</p> 	

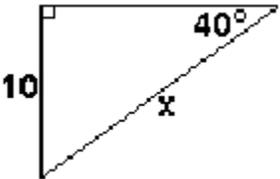
Modifying Assessments- Geometry

Directions: Modify this low cognitive demand problem to a higher cognitive demand problem. Show the new problem on the right and explain your strategy or strategies you used to modify the problem on the left.

LOW cognitive demand problem	HIGH cognitive demand problem
<p>3. What is the value of x?</p> <ul style="list-style-type: none">a) 3b) 9c) $6\sqrt{3}$d) $9\sqrt{3}$  <p>The diagram shows a right-angled triangle. The right angle is at the bottom vertex. The top vertex has an angle of 30°. The hypotenuse, which is the side opposite the right angle, is labeled with the number 18. The side opposite the 30° angle is labeled with the variable x.</p>	

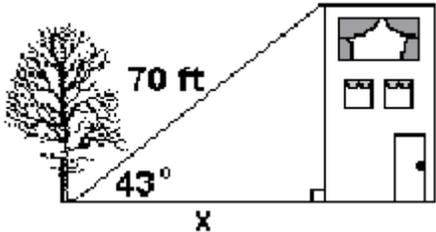
Modifying Assessments- Geometry

Directions: Modify this low cognitive demand problem to a higher cognitive demand problem. Show the new problem on the right and explain your strategy or strategies you used to modify the problem on the left.

LOW cognitive demand problem	HIGH cognitive demand problem
<p>5. Which trigonometric equation could be used correctly to solve for the missing side labeled x?</p>  <p>a) $\sin 40^\circ = \frac{x}{10}$</p> <p>b) $\tan 40^\circ = \frac{10}{x}$</p> <p>c) $\sin 50^\circ = \frac{10}{x}$</p> <p>d) $\cos 50^\circ = \frac{10}{x}$</p>	

Modifying Assessments- Geometry

Directions: Modify this low cognitive demand problem to a higher cognitive demand problem. Show the new problem on the right and explain your strategy or strategies you used to modify the problem on the left.

LOW cognitive demand problem	HIGH cognitive demand problem
<p>6. What is the approximate distance from the house to the tree?</p>  <p>a) 47.8 ft b) 51.2 ft c) 65.3 ft d) 75.1 ft</p>	