

Name: \_\_\_\_\_

Date: \_\_\_\_\_

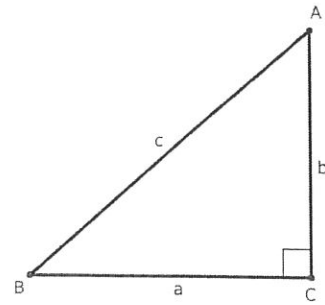
Period: \_\_\_\_\_

Review of Angle of Elevation & Depression & Solving Right Triangles

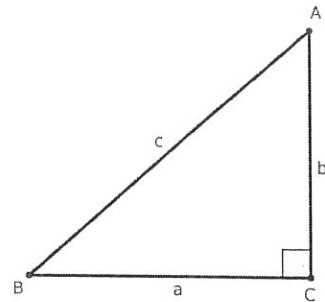
Easter Bunny

In 1 – 4, use the triangle shown and the given information to solve each right triangle.

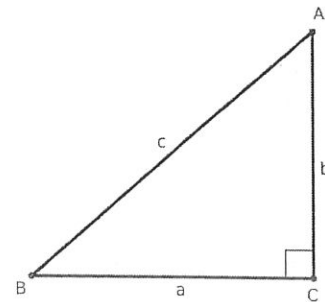
1.  $m\angle A =$  \_\_\_\_\_  $a =$  \_\_\_\_\_  
 $m\angle B = 32^\circ$   $b =$  \_\_\_\_\_  
 $m\angle C =$  \_\_\_\_\_  $c = 24$



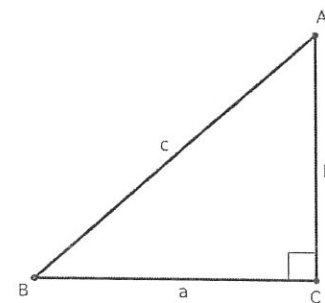
2.  $m\angle A =$  \_\_\_\_\_  $a = 12$   
 $m\angle B =$  \_\_\_\_\_  $b = 15$   
 $m\angle C =$  \_\_\_\_\_  $c =$  \_\_\_\_\_



3.  $m\angle A = 18^\circ$   $a =$  \_\_\_\_\_  
 $m\angle B =$  \_\_\_\_\_  $b = 5.8$   
 $m\angle C =$  \_\_\_\_\_  $c =$  \_\_\_\_\_



4.  $m\angle A = 36^\circ$   $a =$  \_\_\_\_\_  
 $m\angle B =$  \_\_\_\_\_  $b =$  \_\_\_\_\_  
 $m\angle C =$  \_\_\_\_\_  $c = 8$



Draw a diagram to help answer each question below. Round all answers to the nearest tenth place.

5. A trolley car track rises vertically 40 ft. over a horizontal distance of 630 ft. What is the angle of elevation of the track?
  
  
  
  
  
  
  
  
  
  
6. A ski slope is 550 yards long with a vertical drop of 130 yards. Find the angle of depression of the slope.
  
  
  
  
  
  
  
  
  
  
7. A ladder leaning against a house makes an angle of  $60^\circ$  with the ground. The foot of the ladder is 7 ft. from the foundation of the house. How long is the ladder?
  
  
  
  
  
  
  
  
  
  
8. A 40 ft. tree casts a shadow 58 ft. long. Find the angle of elevation of the sun.
  
  
  
  
  
  
  
  
  
  
9. Tommy is flying a kite. The kite string makes an angle of  $57^\circ$  with the ground. If Tommy is standing 100 ft. from the point on the ground directly below the kite, find the length of the kite string.

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Write each trig ratio as a fraction. Leave your answers in reduced fraction form.

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|----------------------|----------------------|
| 10. $\sin B =$ _____ | 11. $\sin A =$ _____ |
| 12. $\cos B =$ _____ | 13. $\cos A =$ _____ |
| 14. $\tan B =$ _____ | 15. $\tan A =$ _____ |

