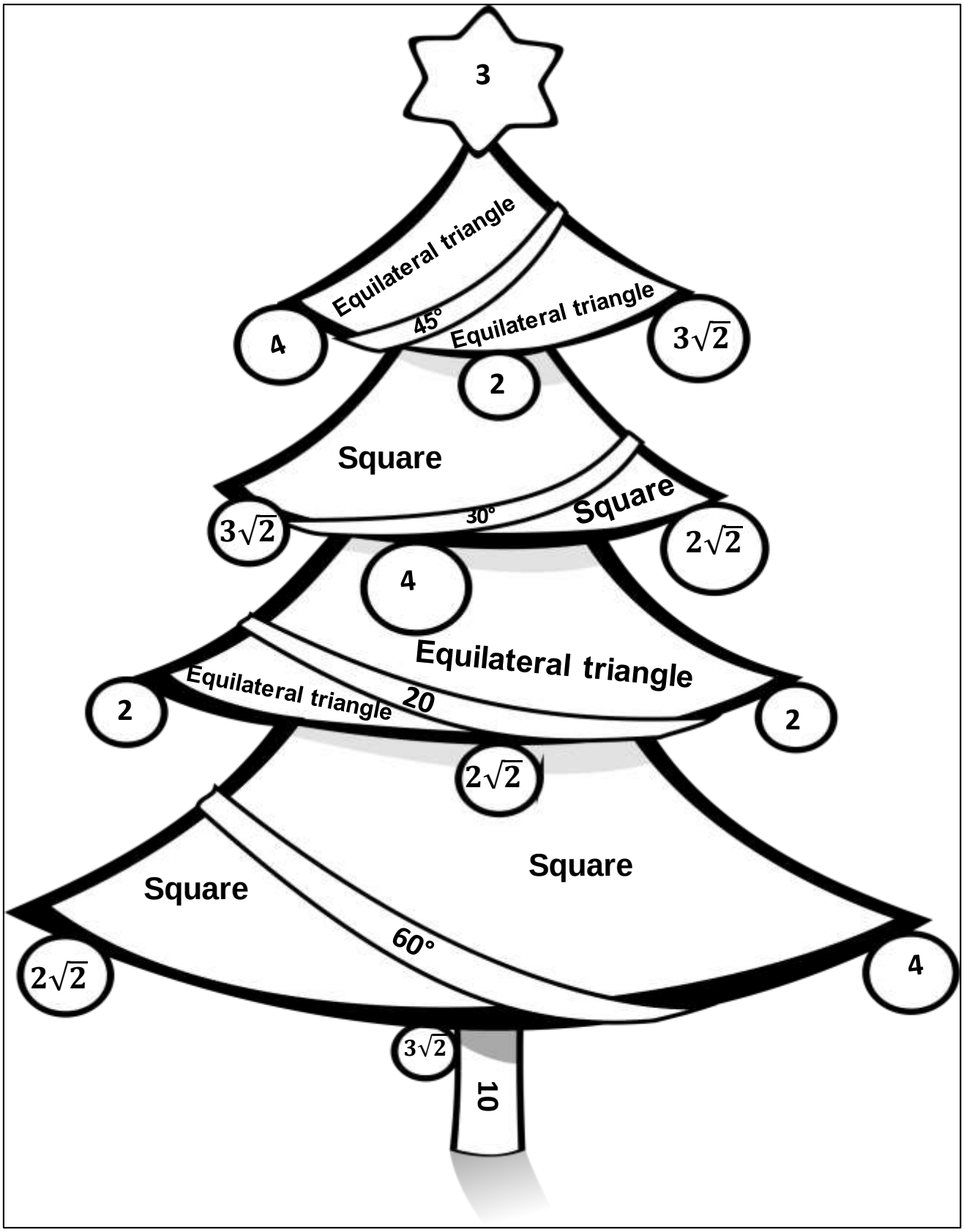
Name: _____ Period: _____ Date: _____

COLOR BY CODES – SPECIAL RIGHT TRIANGLES



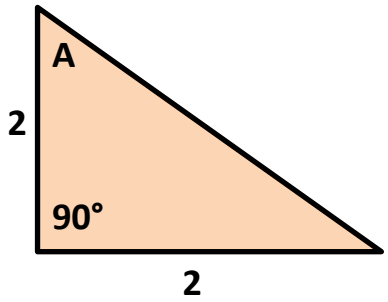
Answer the questions then find your answer on the tree and color according to your answers.

1. A 45-45-90 right triangle is formed when a _____ is cut in a half. **(GREEN)**

2. In a 45-45-90 right triangle, if the length of legs is 2, the length of hypotenuse will be _____. **(PINK)**

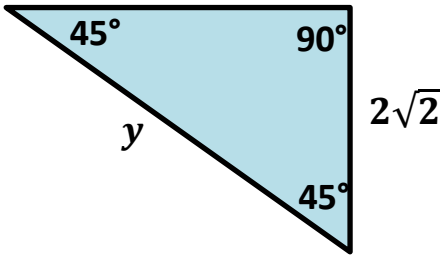
3. In a 45-45-90 right triangle, if the length of the hypotenuse is $2\sqrt{2}$, the lengths of the legs x will be _____. **(YELLOW)**

4. In the triangle shown below, the value of angle A will be? **(GRAY)**



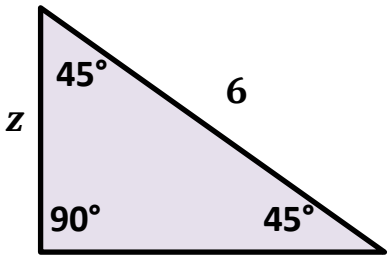
A = _____

5. In the triangle shown below, what will be the value of y? **(PURPLE)**



y = _____

6. In the triangle shown below, what will be the value of z? **(BLUE)**



z = _____

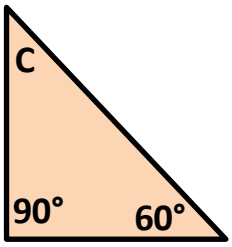
7. A 30-60-90 right triangle is formed when a _____ is cut in a half. **(LIGHT GREEN)**

8. In a 30-60-90 right triangle, if the length of the shorter leg is 5, the length of hypotenuse h will be _____. **(BROWN)**

9. In a 30-60-90 right triangle, if the length of the longer leg is 10, the length of the shorter leg j will be _____. **(YELLOW)**

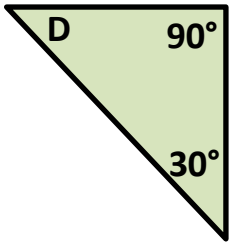
10. In the triangle shown below, the value of angle C will be? **(BLACK)**

C = _____



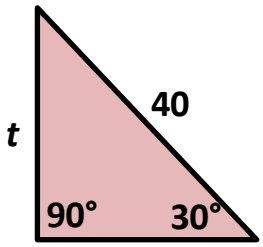
11. In the triangle shown below, the value of angle D will be? **(ORANGE)**

D = _____



12. In the triangle shown below, the value of *t* will be? **(LIGHT BLUE)**

t = _____



Answers:

1. **Square**
2. **Hypotenuse = $2\sqrt{2}$**
3. **$x = 2$**
4. **A = 45°, B = 45°**
5. **y = 4**
6. **z = $3\sqrt{2}$**
7. **Equilateral triangle**
8. **h = 10**
9. **j = 3**
10. **C = 30°**
11. **D = 60°**
12. **t = 20**