COLOR BY CODES – SPECIAL RIGHT TRIANGLES

EQUILATERAL TRIANGLE

$45°$ $2\sqrt{2}$ $45°$

2

4

3

$3\sqrt{2}$

20

3

10

10

$3\sqrt{2}$

20

$60°$

10

$30°$

20

$30°$

SQUARE

$60°$

$60°$

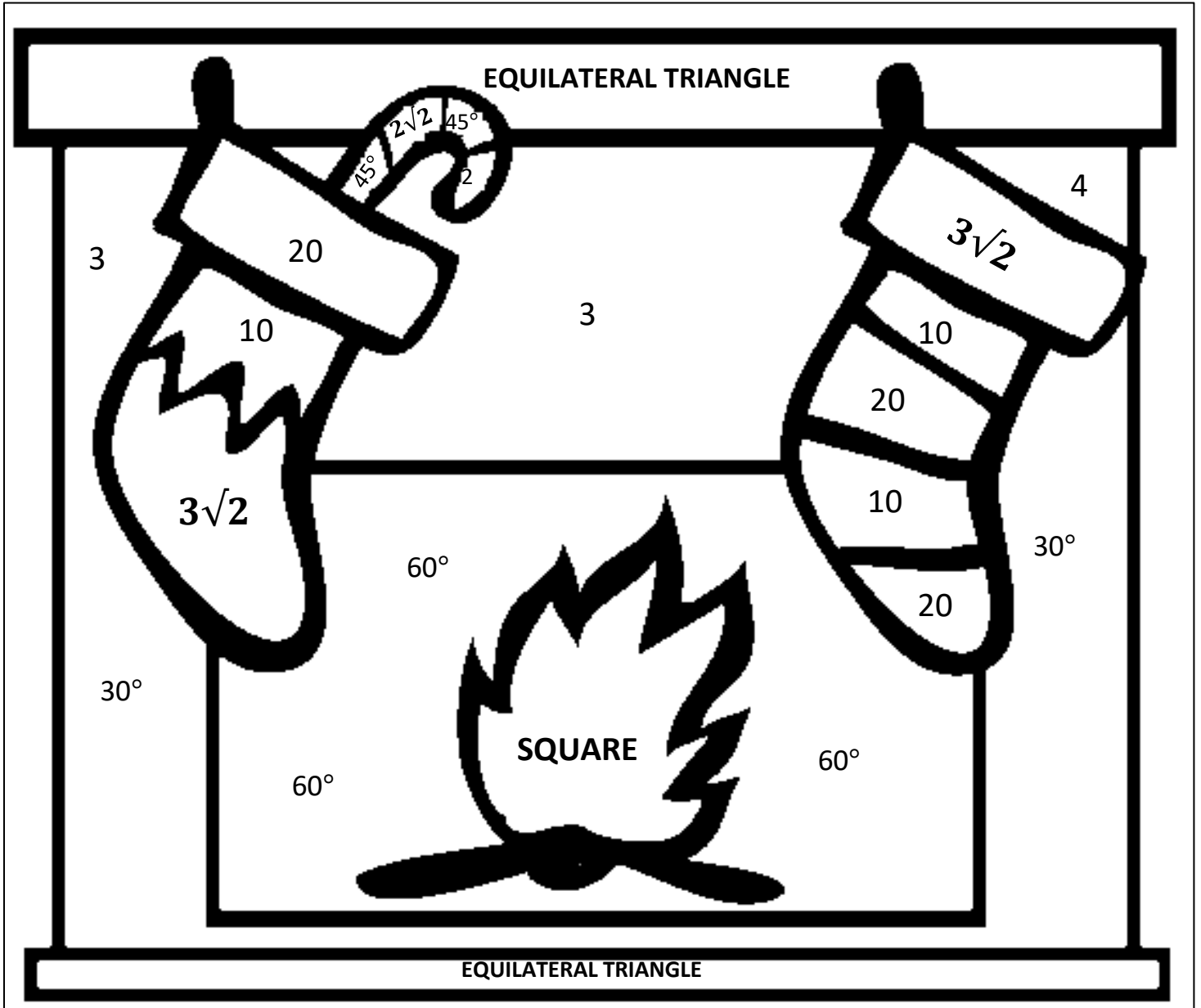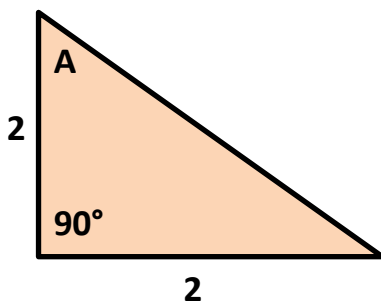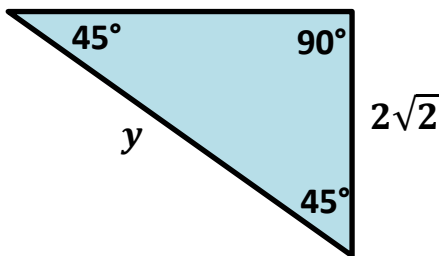**EQUILATERAL TRIANGLE**

Answer the questions. Color the "Fireplace" according to your answers.

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

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

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

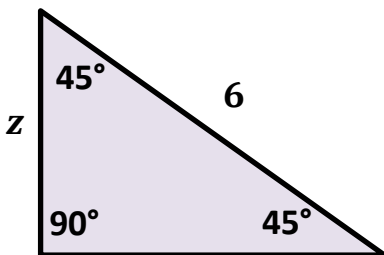4. What is the measure of angle A in the triangle below? **(YELLOW)**

A = _____

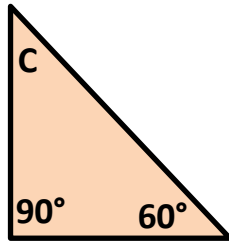5. What is the value of y in the triangle below? **(BLUE)**

y = _____

6. In the triangle shown below, what is the value of z? **(RED)**
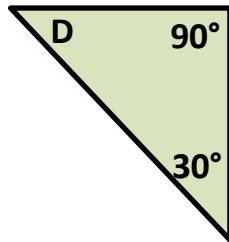

z = _____

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

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

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 _____. **(BLUE)**

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

C = _____

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

D = _____

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

t = _____

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