

****YOU MUST SHOW WORK****

FACEing MATH™

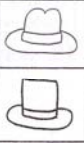
Lesson 18: Special Right Triangles

Directions: Solve each problem and use a pencil to DRAW the object that corresponds with your answer. SHOW YOUR STEPS!!!

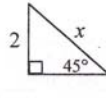
1. Solve for x.



- (a) If $x = 5$ draw the following hat on the head.
- (b) If $x = 5\sqrt{2}$ draw the following hat on the head.



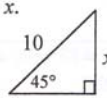
2. Solve for x.



- (a) If $x = 4$ draw the following ears.
- (b) If $x = 2\sqrt{2}$ draw the following ears.



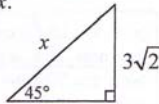
3. Solve for x.



- (a) If $x = 5\sqrt{2}$ draw the following hair around the ears.
- (b) If $x = 10\sqrt{2}$ draw the following hair around the ears.



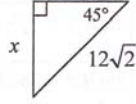
4. Solve for x.



- (a) If $x = 6$ draw the following eyes.
- (b) If $x = 3$ draw the following eyes.



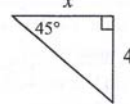
5. Solve for x.



- (a) If $x = 6\sqrt{2}$ draw the following eyebrows.
- (b) If $x = 12$ draw the following eyebrows.



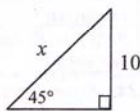
6. Solve for x.



- (a) If $x = 4$ draw the following nose, mustache, and mouth.
- (b) If $x = 4\sqrt{2}$ draw the following nose, mustache, and mouth.



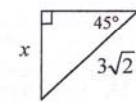
7. Solve for x.



- (a) If $x = 10\sqrt{2}$ draw the following vest.
- (b) If $x = 20$ draw the following vest.



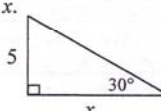
8. Solve for x.



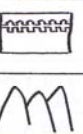
- (a) If $x = 3$ draw a star on the vest.
- (b) If $x = 6\sqrt{2}$ draw a badge on the vest.



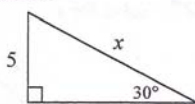
9. Solve for x.



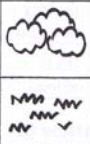
- (a) If $x = 5\sqrt{3}$ draw a fence in the background.
- (b) If $x = 10$ draw mountains in the background.



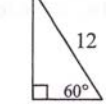
10. Solve for x.



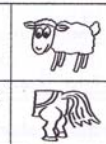
- (a) If $x = 5\sqrt{3}$ draw bushes below the fence/mountains.
- (b) If $x = 10$ draw tufts of grass below the fence/mountains.



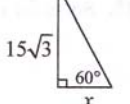
11. Solve for x.



- (a) If $x = 4\sqrt{3}$ draw a sheep in the background.
- (b) If $x = 6$ draw the back end of a horse in the background.



12. Solve for x.

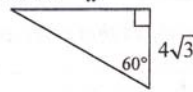


- (a) If $x = 15$ draw a boot in the background.
- (b) If $x = 45$ draw a belt in the background.



Directions: Solve each problem and COLOR the object that corresponds with your answer. SHOW YOUR STEPS!!!

13. Solve for x.



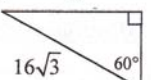
- (a) If $x = 12$ color the stripe on the hat orange.
- (b) If $x = 12\sqrt{3}$ color the stripe on the hat green.

14. Solve for x.



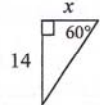
- (a) If $x = 12$ color the rest of the hat yellow.
- (b) If $x = 8\sqrt{3}$ color the rest of the hat brown.

15. Solve for x.



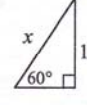
- (a) If $x = 12\sqrt{3}$ color the hair, eyebrows, and mustache yellow.
- (b) If $x = 24$ color the hair, eyebrows, and mustache black.

16. Solve for x.



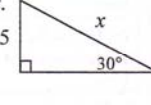
- (a) If $x = \frac{14\sqrt{3}}{3}$ color the eyes and eyelids brown.
- (b) If $x = 14\sqrt{3}$ color the eyes and eyelids blue.

17. Solve for x.



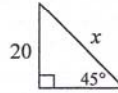
- (a) If $x = \frac{28\sqrt{3}}{3}$ color the mouth pink.
- (b) If $x = 28\sqrt{3}$ color the mouth red.

18. Solve for x.



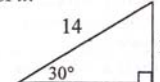
- (a) If $x = 15\sqrt{3}$ color the ears, face, nose, neck, and arms brown.
- (b) If $x = 30$ color the ears, face, nose, neck, and arms apricot.

19. Solve for x.



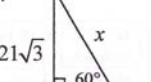
- (a) If $x = 20$ outline the nose and eyes in orange.
- (b) If $x = 20\sqrt{2}$ outline the nose and eyes in black.

20. Solve for x.



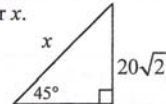
- (a) If $x = \frac{7}{2}$ color the objects on the vest yellow.
- (b) If $x = 7$ color the objects on the vest gray.

21. Solve for x.



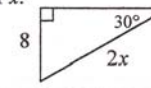
- (a) If $x = 21$ color the rest of the vest brown.
- (b) If $x = 42$ color the rest of the vest black.

22. Solve for x.



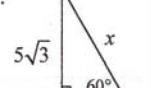
- (a) If $x = 40\sqrt{2}$ color the shirt red.
- (b) If $x = 40$ color the shirt blue.

23. Solve for x.



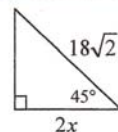
- (a) If $x = 8$ color the boot/belt orange.
- (b) If $x = 16$ color the boot/belt brown.

24. Solve for x.



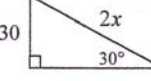
- (a) If $x = 10$ color the area with the grass/bushes green.
- (b) If $x = 5$ color the area with the grass/bushes brown.

25. Solve for x.



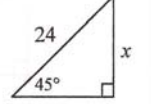
- (a) If $x = 18$ color the area above the fence/mountains yellow.
- (b) If $x = 9$ color the area above the fence/mountains blue.

26. Solve for x.



- (a) If $x = 60$ outline the fence/mountains in red.
- (b) If $x = 30$ outline the fence/mountains in black.

27. Solve for x.



- (a) If $x = 12\sqrt{2}$ color the animal as you wish.
- (b) If $x = 24\sqrt{2}$ do not color the animal.

Artistic Tip: When you are done coloring, it looks nice to outline the major features using a black crayon or marker.

