Name:

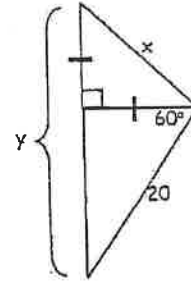Date:

Practice Sheet: 30°-60-°90° and 45°-45°-90° Triangles

1. Find x.
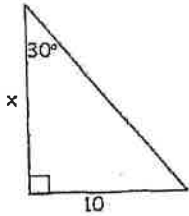
2. Find x and y.
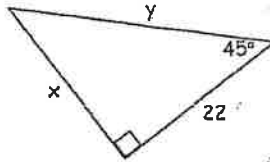
3. Find x and y.

4. Find the altitude of an equilateral triangle with perimeter 18.

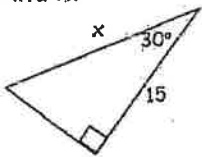5. Find the diagonal of a square with side length 2.

6. Find the legs of an isosceles right triangle with hypotenuse 18.

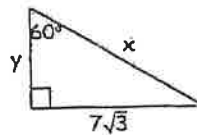7. Find the perimeter of a square with a diagonal of 14.

8. One angle of a rhombus is 60°. If the perimeter is 48, find each diagonal.

9. Find the perimeter of an equilateral triangle with an altitude of $40\sqrt{3}$.

10. Find x.
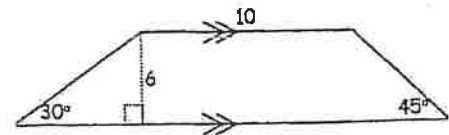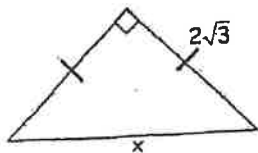

11. Find x and y.

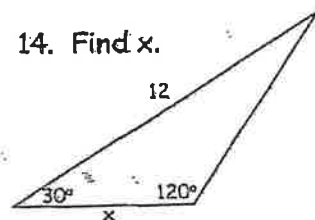12. Find the perimeter of the trapezoid.

13. Find x.

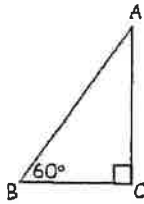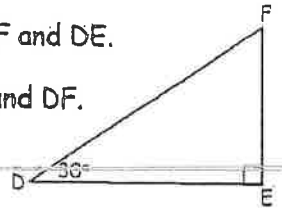14. Find x.

15. Find the area of an equilateral triangle with altitude $4\sqrt{3}$.
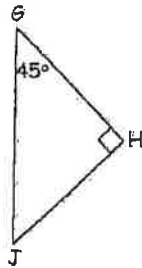
16. a. If AB = 15, find BC and AC.

    b. If AC = $2\sqrt{3}$, find BC and AB.

    c. If AC = $\dfrac{17\sqrt{3}}{2}$, find BC and AB.

17. a. If EF = $\sqrt{5}$, find DE and DF.

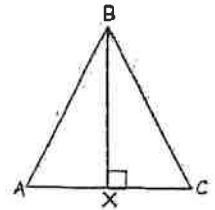   b. If DF = $\sqrt{17}$, find EF and DE.

    c. If DE = 12, find EF and DF.

18. a. If GH = 1, find HJ and GJ.

    b. If HJ = $\dfrac{9}{2}$, find GH and GJ.
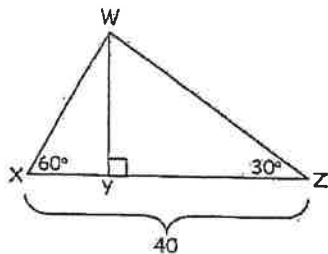
    c. If HJ = $\sqrt{5}$, find GH and GJ.
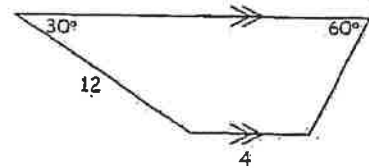
19. Given: $\triangle ABC$ is equilateral.

    a. If AX = 3, find AB.
    b. If AB = 8, find BX.
    c. If AX = $2\sqrt{3}$, find BX.
    d. If BX = 9, find AX.

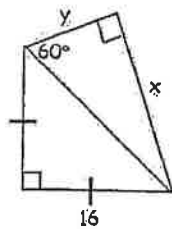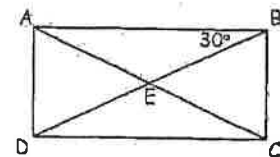20. Find YZ, XY, and WY.

21. Find the perimeter.

22. Find x and y.
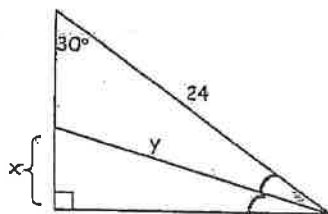
23. ABCD is a rectangle AE = 26.
    Find the perimeter

24. Find x and y.

25. Find a, b, c, and d.