Area of a trapezoid

Name:_____

Date:_____

Solve the problems.

1) Find the area of the trapezoid in inches, if the lengths of the parallel bases are 10 inches and 12 inches then height of a trapezoid is 6 feet.

2) Determine the area of the trapezoid, if the perpendicular distance between the bases is 15 feet and the sum of the bases of a trapezoid is 17 feet.

3) The sum of the parallel bases and the height of a trapezoid are 8 yards and 36 inches respectively. Determine the area of the trapezoid in square yards.

4) If the lengths of the bases are 62 inches and 6 feet, what is the area of a trapezoid in square inches? The perpendicular distance between the bases of a trapezoid is 5 feet.

5) A trapezoid has an area of $\dfrac{19}{2}$ square inches. If the height of the trapezoid is 4 inches and one of the parallel bases is $\dfrac{5}{4}$ inches, then find the other base.

6) The perpendicular distance between the bases of a trapezoid is $\dfrac{4}{3}$ feet and one of the bases measures $1\dfrac{1}{5}$ feet. If the area of the trapezoid is 2 square feet, find the length of the other base.

7) The sum of the bases and the height of a trapezoid are 7.9 meter and 3.8 meter respectively. Determine the area of the trapezoid.

8) The sum of the parallel bases and the height of a trapezoid are 8.8 yards and 53 inches respectively. Determine the area of the trapezoid in square yards.

9) The perpendicular distance between the bases of a trapezoid is 5.4 feet. If the lengths of the bases are 36.8 inches and 34.6 inches, what is the area of a trapezoid in square inches?

Area of a trapezoid

Name:_____   Date:_____

Solve the problems.

1) Find the area of the trapezoid in inches, if the lengths of the parallel bases are 10 inches and 12 inches then height of a trapezoid is 6 feet.

    792 square inches

2) Determine the area of the trapezoid, if the perpendicular distance between the bases is 15 feet and the sum of the bases of a trapezoid is 17 feet.

    127.5 square feet

3) The sum of the parallel bases and the height of a trapezoid are 8 yards and 36 inches respectively. Determine the area of the trapezoid in square yards.

    4 square yards

4) If the lengths of the bases are 62 inches and 6 feet, what is the area of a trapezoid in square inches? The perpendicular distance between the bases of a trapezoid is 5 feet.

    4,020 square inches

5) A trapezoid has an area of $\frac{19}{2}$ square inches. If the height of the trapezoid is 4 inches and one of the parallel bases is $\frac{5}{4}$ inches, then find the other base?

    $\frac{7}{2}$ inches

6) The perpendicular distance between the bases of a trapezoid is $\frac{4}{3}$ feet and one of the bases measures $1\frac{1}{5}$ feet. If the area of the trapezoid is 2 square feet, find the length of the other base.

    $\frac{9}{5}$ feet

7) The sum of the bases and the height of a trapezoid are 7.9 meter and 3.8 meter respectively. Determine the area of the trapezoid?

    15.01 square meters

8) The sum of the parallel bases and the height of a trapezoid are 8.8 yards and 53 inches respectively. Determine the area of the trapezoid in square yards?

    6.47 square yards

9) The perpendicular distance between the bases of a trapezoid is 5.4 feet. If the lengths of the bases are 36.8 inches and 34.6 inches, what is the area of a trapezoid in square inches?

    2313.36 square inches