

## Area of a trapezoid

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Solve the problems.

- 1) Find the area of a trapezoid with bases of 12 centimeters and 9 centimeters, and a height of 5 centimeters.  
\_\_\_\_\_
- 2) What is the height of the trapezoid, if area of the trapezoid is  $42 \text{ ft}^2$  and the sum of the bases are 19ft?  
\_\_\_\_\_
- 3) If the lengths of the parallel bases are 15.5 inches and 13.4 inches then height of a trapezoid is 5 inches. Find the area of the trapezoid?  
\_\_\_\_\_
- 4) The area of a trapezoid is 66 square meters and the bases are 13 meters and 12 meters. Find the height of a trapezoid?  
\_\_\_\_\_
- 5) What are the lengths of the parallel sides of the trapezoid with an area of  $100 \text{ m}^2$ , if one of the parallel sides is three times as long as the other and the height of the trapezoid is 10 m?  
\_\_\_\_\_
- 6) What is the area of a trapezoid, if its height is 7.6 feet and the length of one of its base is two times the length of the other base, which is of 3.2 feet?  
\_\_\_\_\_
- 7) The sum of the parallel bases and the height of a trapezoid are 16 feet and 4.7 yards respectively. Determine the area of the trapezoid in square yards.  
\_\_\_\_\_
- 8) If its area is  $92 \text{ m}^2$ , height is 14 m and the length of the shorter side is 3 m shorter than the longer side. What are the lengths of the parallel sides of a trapezoid?  
\_\_\_\_\_
- 9) ABCD is a trapezoid, in which the side AD is parallel to BC and is 7 inches longer than the side BC. What are the lengths of the parallel sides, if the area of the trapezoid is 42 square inches and the height is 4 inches?  
\_\_\_\_\_

## Area of a trapezoid

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### Solve the problems.

- 1) Find the area of a trapezoid with bases of 12 centimeters and 9 centimeters, and a height of 5 centimeters.  
52.5 square centimeters
- 2) What is the height of the trapezoid, if area of the trapezoid is  $42 \text{ ft}^2$  and the sum of the bases are 19ft?  
4.42 feet
- 3) If the lengths of the parallel bases are 15.5 inches and 13.4 inches then height of a trapezoid is 5 inches. Find the area of the trapezoid?  
72.25 square inches
- 4) The area of a trapezoid is 66 square meters and the bases are 13 meters and 12 meters. Find the height of a trapezoid?  
5.28 meters
- 5) What are the lengths of the parallel sides of the trapezoid with an area of  $100 \text{ m}^2$ , if one of the parallel sides is three times as long as the other and the height of the trapezoid is 10 m?  
5m and 15m
- 6) What is the area of a trapezoid, if its height is 7.6 feet and the length of one of its base is two times the length of the other base, which is of 3.2 feet?  
36.48 square feet
- 7) The sum of the parallel bases and the height of a trapezoid are 16 feet and 4.7 yards respectively. Determine the area of the trapezoid in square yards.  
12.53 square yards
- 8) If its area is  $92 \text{ m}^2$ , height is 14 m and the length of the shorter side is 3 m shorter than the longer side. What are the lengths of the parallel sides of a trapezoid?  
5.071 m and 8.071 m
- 9) ABCD is a trapezoid, in which the side AD is parallel to BC and is 7 inches longer than the side BC. What are the lengths of the parallel sides, if the area of the trapezoid is 42 square inches and the height is 4 inches?  
7 inches and 14 inches