Homework Practice

Area of Trapezoids

Find the area of each figure. Round to the nearest tenth if necessary.

1. \(7\) ft \(\times\) \(7\) ft \(\times\) \(11\) ft
   - Area: \(63\) ft\(^2\)

2. \(7.5\) in. \(\times\) \(6\) in. \(\times\) \(5\) in.
   - Area: \(37.5\) in\(^2\)

3. \(6.3\) m \(\times\) \(4\) m \(\times\) \(3.6\) m
   - Area: \(19.8\) m\(^2\)

4. \(14.3\) cm \(\times\) \(12\) cm \(\times\) \(18.4\) cm
   - Area: \(196.2\) cm\(^2\)

5. \(4\) yd \(\times\) \(3\) yd \(\times\) \(5\) yd \(\times\) \(9\) yd
   - Area: \(22.8\) yd\(^2\)

7. GEOGRAPHY The shape of Arkansas is roughly trapezoidal with bases of 475 kilometers and 300 kilometers and a height of 400 kilometers. What is the approximate area of Arkansas?
   - Area: \(155,000\) km\(^2\)

8. Find the area of the figure. It is formed by two congruent trapezoids. \(48\) m\(^2\)

Draw and label each figure. Then find the area.

9. a trapezoid with a right angle and an area greater than 50 square feet
   - Sample answer: \(A = 62.5\) ft\(^2\)

10. a trapezoid with no right angles and an area greater than 75 square meters
    - Sample answer: \(A = 112.5\) m\(^2\)