

Handout 3: Stories Have Two Sides, Problems Have Four

1. Calculate the area of a trapezoid with bases 3 and 9 cm, and height 4 cm.
2. A square has side length equal to 2 feet. Find the area in square inches.
3. What is the area of a parallelogram with height 3 mi and base 8 mi?
4. A rectangle has a diagonal of 25 inches. The length of the rectangle is 24 inches. Find the area.
5. Find the area of a square with perimeter 36 m.
6. Find the area of a rectangle with perimeter 36 m if one side is 11 m.
7. A rectangle has perimeter 36 mm and area 80 mm^2 . What are the lengths and widths of the rectangle?
8. The area of a kite is 64 cm^2 . If one of the diagonals is twice the length of the other, what are the lengths of the diagonals?
9. A trapezoid has an area of 25 units^2 . If one base is 10 units longer than the other and the height is half the length of the shorter base, what are the lengths of the bases of the trapezoid?
10. A parallelogram with sides 10 ft and 9.7 ft makes a 72° angle. What is the area of the parallelogram?