

Handout 3: Stories Have Two Sides, Problems Have Four - Answers

1. Calculate the area of a trapezoid with bases 3 and 9 cm, and height 4 cm.
24 cm²
2. A square has side length equal to 2 feet.
Find the area in square inches.
576 in²
3. What is the area of a parallelogram with height 3 mi and base 8 mi?
24 mi²
4. A rectangle has a diagonal of 25 inches.
The length of the rectangle is 24 inches.
Find the area.
168 in²
5. Find the area of a square with perimeter 36 m.
81 m²
6. Find the area of a rectangle with perimeter 36 m if one side is 11 m.
77 m²
7. A rectangle has perimeter 36 mm and area 80 mm². What are the lengths and widths of the rectangle?
10 mm and 8 mm
8. The area of a kite is 64 cm². If one of the diagonals is twice the length of the other, what are the lengths of the diagonals?
8 cm and 16 cm
9. A trapezoid has an area of 25 units². 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?
5 units and 15 units
10. A parallelogram with sides 10 ft and 9.7 ft makes a 72° angle. What is the area of the parallelogram?
92.3 ft²