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DATE _____

Module 4 Solving Problems Using Linear Equations of One Variable
Lesson 3 Solving Geometry Problems Using Equations of One Variable



**additional
practice**

Write an equation and solve.

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| <p>1. The perimeter of a square is 96 cm. Find the length of each side.</p> <p>_____</p> | <p>2. The perimeter of an equilateral triangle is 45 m. Find the length of each side.</p> <p>_____</p> |
| <p>3. The perimeter of a rectangle is 42 in. The length is 1 in. longer than the width. Find the width of the rectangle.</p> <p>_____</p> | <p>4. The perimeter of an isosceles triangle is 11 ft. The base is 2 ft longer than each leg. Find the length of the base.</p> <p>_____</p> |
| <p>5. The perimeter of an isosceles triangle is 23 cm. Each leg is 2 cm shorter than the base. Find the length of each leg.</p> <p>_____</p> | <p>6. The perimeter of a scalene triangle is 17 in. The first side is 1 in. shorter than the second side, and the third side is 3 in. longer than the second side. Find the length of the longest side.</p> <p>_____</p> |
| <p>7. The perimeter of a rectangle is 38 in. The width is 6 in. shorter than the length. Find the width of the rectangle.</p> <p>_____</p> | <p>8. The three angles in an equilateral triangle are congruent. What is the measure of each angle?</p> <p>_____</p> |
| <p>9. In an isosceles triangle, the vertex angle has $\frac{1}{4}$ the measure of each base angle. Find the measure of each base angle.</p> <p>_____</p> | <p>10. In a scalene triangle, the measure of the first angle is half the measure of the second angle. The measure of the third angle is three times the measure of the second angle. Find the measure of the smallest angle.</p> <p>_____</p> |
| <p>11. In a scalene triangle, the measure of the second angle is 10° more than the first. The measure of the third angle is 35° more than the first. Find the measure of each angle.</p> <p>_____</p> | <p>12. An angle measures 50° less than its complement. Find the measures of the angle and its complement.</p> <p>_____</p> |

13. The measure of an angle is four times the measure of its complement. Find the measure of the angle.

14. The measure of angle B is 20° less than the measure of its supplement. Find the measure of angle B .

15. The measure of an angle is 30° more than twice the measure of its supplement. Find the measures of the angle and its supplement.

