

Numbers 1 to 3 - Add like terms

1. $5x^2 + 20 - x^2 - 12$

2. $23e + 14f + 9g - 3f - 8g$

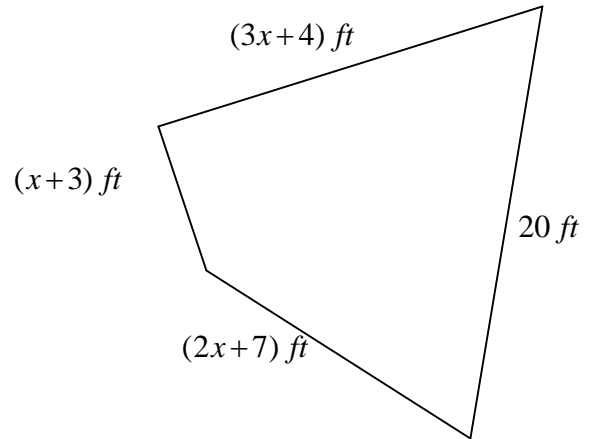
3. $7y^3 + 2y + 7y - 5y^2 + 3y^3$

4. **Find** the perimeter of the shape in algebraic terms.

Simplify by adding like terms.

Then let $x = 4$ and find the numeric perimeter.

All measurements are feet.

**Numbers 5 to 8 - Write an equation that represents the word sentence; then solve the equation.**

5. The product of 3 and some number equals 27.

6. The difference of a number and 5 yields 22.

7. The sum of a number and 16 is the same as 30.

8. The quotient of a number and 7 gives 14.

Numbers 9 to 12 - Solve and Check the equations

9. $\frac{y}{4} = 12$

check

10. $a - 14 = 40$

check

11. $15 = c + 5$

check

12. $6d = 48$

check

Chapter 2 Review 2

13. Write and solve an equation. Susan's bank account has \$310. When she has \$675 in it, she will have enough for a vacation. How much more money does she need to save?
14. Write and solve an equation. Harry's car gets 24 miles per gallon. If he is going on a 624 mile trip, how many gallons of gasoline will he use?

Numbers 15 and 16 - Simplify then solve the equation. DO NOT check the answer.

15. $3(4x+5)-11x=8x+24-8x-9$

16. $4(x+2)-3x-6=3(2x+6)-6x-10$

17. Name the property shown: $23(8 \cdot 9) = (23 \cdot 8)9$ _____

Numbers 18 to 20 - Simplify using distributive property

18. $4(8f^2+6f-3)$

19. $26+13h$

20. $7a-35$

Numbers 21 to 24, Solve the following inequalities.

21. $7 > a - 3$

22. $f - 12 \leq 20$

23. $3y > 18$

24. $\frac{d}{5} < 15$

25. **Find the perimeter and area of the irregular shape.**
Include formulas and units.

