

Solve the equation.

7. $\frac{x}{-4} + 28 = -5$

$$\frac{x}{-4} = -33 \cdot -4$$

$$x = 132$$

8. $-4x - 4 = 4$

$$-4x = 8$$

$$x = -2$$

9. $4m + 3m = 28$

$$7m = 28$$

$$m = 4$$

10. $46 = -2(m + 7) + m$

$$46 = -2m - 14 + m$$

$$60 = -m$$

$$-60 = m$$

11. $6 = 4(x + 8) - 5x$

$$6 = 4x + 32 - 5x$$

$$x = 26$$

12. $\frac{1}{5}y - 5 = 5$

$$y = 50$$

13. $0.1x + 10 = 38$

$$.1x = 28$$

$$x = 280$$

14. $12 + 0.35x = 20.05$

$$.35x = 8.05$$

$$x = 23$$

$$\begin{array}{r} 23 \\ 35 \overline{) 805} \\ \underline{70} \\ 105 \\ \underline{-105} \\ 0 \end{array}$$

15. $5x + 4 = 3x - 6$

$$2x = -10$$

$$x = -5$$

16. $x + 9 = 5(4x - 2)$

$$x + 9 = 20x - 10$$

$$19 = 19x$$

$$1 = x$$

17. $-6p + 21 = 9p - 12$

$$\frac{33}{15} = \frac{15p}{15}$$

$$2\frac{1}{5} = p$$

* Don't forget "let" statements

18. The sum of three consecutive integers is 108. Find the integers.

$$n + (n+1) + (n+2) = 108$$

$$3n + 3 = 108$$

$$\frac{3n}{3} = \frac{105}{3}$$

$$n = 35$$

35, 36, 37

Solve and graph the inequality.

19. $6m - 6 \leq 18$

$$6m \leq 24$$

$$m \leq 4$$



20. Solve the perimeter formula for an isosceles triangle, $P = 2a + b$, for b .

$$p - 2a = b$$

21. Jordan invested \$500 in a savings account. The interest rate is 3% per year. Find the simple interest earned in 4 years. Then find the total of principal plus interest.

$$500 \times .03 \times 4 = \$60$$

$$\$560$$

22. Find the balance on a deposit of \$1,050 that earns 7% interest compounded annually for 3 years.

$$1050(1+.07)^3$$

$$\$1376.34$$

*"Let" statement

23. The Party Room at Penny's Pizza rents for an initial fee of \$30 and then \$5 per hour. Aislyn's bill for her birthday party was \$45. For how many hours did she rent the room?

$$30 + 5x = 45$$

$$\frac{5x}{5} = \frac{15}{5}$$

$$x = 3$$

3 hours