

Review 7.1-7.3

Section 7.1 - Writing Equations in One Variable

Write the word sentence as an equation.

- 1) 5 less than a number b is 16.
- 2) 30 is 6 multiplied by a number y .
- 3) A number z divided by 7 equals 4.
- 4) 5 more than a number m equals 8.
- 5) A crew is picking up chairs in the gymnasium after an event. After clearing 217 chairs from the gym floor, 36 chairs still remain. Write an equation you can use to find the number of chairs placed on the gym floor for the event.

Section 7.2 - Solving Equations: Addition or Subtraction

Tell whether the given value is a solution of the equation. SHOW WORK.

- 6) $x + 16 = 20$; $x = 4$
- 7) $p - 4 = 28$; $p = 32$
- 8) $4w = 44$; $w = 10$
- 9) $\frac{y}{6} = 6$; $y = 24$

Solve the equation. Check your solution.


- 10) $f - 22 = 14$
- 11) $8 + s = 10$
- 12) $r - 3.2 = 1.7$


13) $8.9 = v + 7.3$

14) $\frac{1}{3} + n = \frac{2}{3}$

15) $\frac{2}{3} = \frac{1}{4} + g$

Describe and correct the error in solving the equation.

16) 
$$\begin{array}{r} 13 + m = 56 \\ + 13 \qquad + 13 \\ \hline m = 69 \end{array}$$

17) 
$$\begin{array}{r} 27 = n - 15 \\ - 15 \qquad + 15 \\ \hline 12 = n \end{array}$$

Write the word sentence as an equation. Then solve the equation. Check your work.

18) 20 equals 8 more than a number y .

19) The sum of a number x and 12 equals 15.

20) The height of a desk is 11 inches shorter than the height of a chair. Write and solve an equation to find the height of the desk.



Section 7.3 - Solving Equations: Multiplication or Division

Solve the equation. Check your solution.

21) $9y = 72$

22) $3 \bullet n = 63$

23) $18 = \frac{h}{9}$

24) $\frac{c}{7} = 5$

- 25) A teacher tells 36 students to form 4 equal groups. Write and solve a multiplication equation to find how many students s there should be in each group.