

Chapter 3 Review

Name: _____

Solve and Check.

1. $8p - 3 = 13$

2. $8j - 5 + j = 67$

3. $6(t + 5) = -36$

4. $\frac{7}{12}x = \frac{3}{14}$

5. $-n + 8.5 = 14.2$

6. $\frac{3}{4} = \frac{-6}{m}$

7. $\frac{8}{b+10} = \frac{4}{2b-7}$

8. $\frac{n+12}{4} = \frac{n}{16}$

9. $6p + 1 = 3(2p + 1)$

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

11. $3(g - 1) + 7 = 3g + 4$

12. $\frac{1}{3s} = \frac{s}{2} - \frac{1}{6s}$

13. $\frac{1}{x} + \frac{1}{2x} = \frac{1}{6}$

14. solve for y: $4x - 2y = 6$

Write an equation and solve.

15. A rectangular pool is twice as long as it is wide. What are the dimensions of the pool if the perimeter is 42 yd?

16. A DVD club charges a monthly membership fee of \$4.95 and \$11.95 for each DVD purchased. If a customer's bill for the month was \$64.70, how many DVDs did the customer purchase?

17. A lawyer charges \$100 per month to be put on retainer for a client. The lawyer also charges an hourly rate of \$75 for work done. How many hours does the lawyer have to work for a client, in one month, to charge \$625?

18. A shopper's discount club charges a monthly fee of \$15 and sells gasoline for \$2.05 per gallon. The gas station across the street sells gasoline for \$2.35 per gallon and charges no fee. How many gallons of gasoline would you have to buy in one month to spend the same amount at either store?

19. The scale on a map is 1 in. : 15 mi. The distance between two cities is 25 mi. Find the distance in inches between the cities on the map.

20. Joe and Gayna live 3 miles apart. They both leave their houses at the same time and walk to meet each other. Joe walks at 2.5 mi/h and Gayna walks at 3.5 mi/h. How far will Joe walk before he meets Gayna?