

Chapter 2 Practice Test

Date _____ Period _____

Translate the following into an equation.1) the difference of n and 4 is equal to 36

- A) $n - 4 = 36$ B) $\frac{n}{4} = 36$
C) $4 - n = 36$ D) $n + 4 = 36$

Translate the following equation into a verbal sentence.2) $b - 8 = 19$

- A) b less than 8 is equal to 19
B) half of b is equal to 19
C) b squared is equal to 19
D) 8 less than b is equal to 19

Solve each equation.

3) $-33 = -15 + x$

4) $2v = -28$

5) $7 + v = 18$

6) $4m - 2 + 4m = -2$

7) $x + 1 + x = -1$

8) $|5x + 5| = 35$

Solve each proportion.

9) $\frac{6}{8} = \frac{7}{k}$

10) $\frac{9}{7} = \frac{6}{x}$

Solve each equation.

11) $12 + 5x = x - 4$

12) $2(-3k - 6) = 2(k + 2)$

13) $-(4m - 4) = 3(-4 + 4m)$

Solve each equation for the indicated variable.

14) $\frac{k}{x} = vw$, for x

15) $a - m = n - p$, for a

Find each percent change. State if it is an increase or a decrease.

16) From 5 to 9

17) From 17 to 12

18) How many ml of a 88% alcohol solution must be mixed with 12 ml of a 81% alcohol solution to make a 82% solution?

19) 14 kg of Indonesian cinnamon which costs \$11/kg were combined with 2 kg of Thai cinnamon which costs \$19/kg. Find the cost per kg of the mixture.

20) Shayna left the hardware store and drove toward the recycling plant at an average speed of 64 km/h. Sometime later Kim left driving in the same direction but at an average speed of 80 km/h. After driving for four hours Kim caught up with Shayna. How long did Shayna drive before Kim caught up?

Answers to Chapter 2 Practice Test (ID: 8)

1) A

5) $\{11\}$

9) $\left\{\frac{28}{3}\right\}$

13) $\{1\}$

17) 29% decrease

2) D

6) $\{0\}$

10) $\left\{\frac{14}{3}\right\}$

14) $x = \frac{k}{vw}$

18) 2 ml

3) $\{-18\}$

7) $\{-1\}$

11) $\{-4\}$

15) $a = m + n - p$

19) \$12/kg

4) $\{-14\}$

8) $\{6, -8\}$

12) $\{-2\}$

16) 80% increase

20) 5 hours