

Unit 2 Practice Test

Solve each equation.

1) $-9 = x - 6$

2) $\frac{m}{7} = \frac{10}{7}$

3) $9 + 9n = -27$

4) $8(-7 + x) = -32$

5) $5(-4 + n) = 50$

6) $24 = -2n - 6n$

7) $7(-1 - 6m) - 3m = 308$

8) $-75 = -7(-3 + 6n) - 3(5n - 6)$

9) $1 - 7x = -5x - 13$

10) $7v + 4(3v - 2) = 36 + 8v$

Solve each proportion.

$$11) \frac{5}{8} = \frac{x}{9}$$

$$12) \frac{8}{x-1} = \frac{10}{4}$$

$$13) \frac{n}{5} = \frac{n+7}{4}$$

$$14) \frac{2}{5} = \frac{n-1}{n-6}$$

15) A printer can print 12 color pages in 3 minutes. How many color pages can the printer print in 9 minutes? Write and solve a proportion to find the answer.

16) Every 5 minutes, the cashier at the head of the line helps 2 people. There are 14 people in the line ahead of you. Write and solve a proportion that can be used to determine how long you will have to wait in line?

17) Write $3x+2y=8$ so that y is a function of x

18) Solve for h : $S = 2B + Ph$

19) Solve for w : $V = lwh$

20) Solve for x : $c = \frac{x+a}{b}$