

Chapter 3 Practice Test
Algebra

Name _____

Solve.

1.) $-3 + x = 5$

2.) $x + 2.3 = 17$

3.) $z - 4 = -23$

4.) $-3d = -81$

5.) $-\frac{x}{4} = \frac{9}{16}$

6.) Seven tenths of a number is 42. Find the number.

7.) $4y - 12y + 3 = -21$

8.) $3(b - 4) - 2(b + 4) = 6$

9.) Write as an algebraic expression: 8 times the difference between number and 7.

10.) Today Amy's family traveled 200 miles more than half the number of miles traveled yesterday. Let m = the number of miles traveled yesterday. Write an expression for the number of miles traveled today.

Solve.

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

12.) $10 - (r + 30) = 2(r + 5)$

13.) $3.6x + 0.81 = 1.08$

14.) $\frac{1}{6}x + \frac{1}{3} = \frac{1}{4}x - \frac{1}{2}$

15.) Solve $F = \frac{9}{5}C + 32$ for C .

16.) $|x| - 5 = 25$

17.) $-2|x| + 4|x| = 24$

18.) $\frac{x}{24} = \frac{2}{3}$

19.) $\frac{a}{4} = \frac{5}{6}$

20.) A cookie uses 2 cups of chocolate chips to make 80 cookies. How many cups of chocolate chips are needed to make 200 cookies?

21.) What percent of 20 is 110?

22.) The sum of two consecutive integers is 27. What are the integers?

23.) Bob bought a bicycle at 25% off the original price. If he paid \$225 for the bike, what was the original price?