

Solving Equations

(Addition and Subtraction)

Name _____

Date _____

Evaluate each expression.

1. $x -^{-}1$ when $x = +3$ _____

2. $x +^{-}4$ when $x =^{-}2$ _____

3. $x + +5$ when $x = 0$ _____

4. $x - +3$ when $x = +6$ _____

5. $^{-}2 + h$ when $h = +3$ _____

6. $a - a$ when $a =^{-}2$ _____

Solve.

7. $s + +4 = +9$

$s =$ _____

8. $r +^{-}7 = +14$

$r =$ _____

9. $t + +12 =^{-}2$

$t =$ _____

10. $b - +8 =^{-}16$

$b =$ _____

11. $c - +11 = +42$

$c =$ _____

12. $m -^{-}9 = +6$

$m =$ _____

13. $c -^{-}10 = +18$

$c =$ _____

14. $c -^{-}2 =^{-}1$

$c =$ _____

15. $b +^{-}4 = +15$

$b =$ _____

16. $d +^{-}2.1 =^{-}3.4$

$d =$ _____

17. $x - +4.1 =^{-}2.8$

$x =$ _____

18. $y +^{-}2.5 =^{-}2.5$

$y =$ _____

19. $a + +5 = +8$

$a =$ _____

20. $d - +7 = +21$

$d =$ _____

21. $g -^{-}2 =^{-}24$

$g =$ _____

Write a mathematical sentence for each. Then solve it.

22. Five less than a number is 26. _____

23. Seven more than a number is $^{-}12$. _____

24. A number decreased by $^{-}8$ is $^{-}11$. _____

25. A number increased by 15 is 41. _____

Solving Equations

(Multiplication and Division)

Name _____

Date _____

Write an equation for each. Then solve it.

1. Four times a number is negative 55. _____

2. A number divided by negative 3 is positive 7. _____

3. A number times negative 9 is negative 36. _____

4. Seven times a number is negative 56. _____

Solve.

5. $7x = +49$

$x =$ _____

6. $-5a = -45$

$a =$ _____

7. $9r = +81$

$r =$ _____

8. $-3s = -36$

$s =$ _____

9. $-8t = +0.64$

$t =$ _____

10. $+1.4x = -42$

$x =$ _____

11. $10y = -350.1$

$y =$ _____

12. $-0.12a = +144$

$a =$ _____

13. $21c = -\frac{1}{3}$

$c =$ _____

14. $8d = \frac{4}{5}$

$d =$ _____

15. $-23b = +20.7$

$b =$ _____

16. $9r = -7.65$

$r =$ _____

17. $\frac{1}{4}t = -400$

$t =$ _____

18. $13n = +91$

$n =$ _____

19. $8x = -6$

$x =$ _____

20. $\frac{f}{+4} = +16$

$f =$ _____

21. $\frac{a}{+9} = -8$

$a =$ _____

22. $\frac{b}{-3} = +41$

$b =$ _____

23. $\frac{c}{+8} = -36$

$c =$ _____

24. $\frac{d}{+20} = -\frac{1}{5}$

$d =$ _____

25. $\frac{e}{-1} = +12.5$

$e =$ _____

26. $\frac{h}{-1} = -4.7$

$h =$ _____

27. $\frac{a}{-0.7} = -8$

$a =$ _____

28. $\frac{n}{+10} = -36\frac{1}{5}$

$n =$ _____

29. $\frac{t}{0.5} = +26$

$t =$ _____

30. $\frac{c}{-4} = -10\frac{1}{2}$

$c =$ _____

31. $\frac{n}{+3} = +64$

$n =$ _____

32. $\frac{x}{-2} = +5.8$

$x =$ _____

Fractions and Decimals to Percents

Name _____

Date _____

Complete the chart.

	Ratio	Fraction	Decimal	Percent
1.	30:100	$\frac{3}{10}$		
2.	50:100			
3.		$\frac{1}{4}$		
4.	$16\frac{2}{3}:100$	$\frac{1}{6}$		
5.			0.8	
6.		$\frac{1}{3}$		
7.			0.42	
8.			0.9	
9.	5:8			
10.		$\frac{7}{9}$		
11.			0.6	
12.		$1\frac{3}{4}$		
13.		$\frac{1}{8}$		
14.	2:3			

Circle the percent, ratio, fraction, or decimal that does not belong in each exercise.

15. 2.5 25% $\frac{1}{4}$ 25:100 16. 13% 0.13 $\frac{13}{100}$ 1.3:100
17. 10:100 $\frac{70}{100}$ 70% 0.7 18. 1:2 50% $\frac{50}{100}$ 0.05
19. 45% 9:20 $\frac{45}{100}$ 4.5 20. 35% 35:100 0.35 $\frac{7}{10}$
21. 0.375 $37\frac{1}{2}\%$ $\frac{3}{8}$ 37:100 22. 1:3 $0.66\frac{2}{3}$ $\frac{2}{3}$ $66\frac{2}{3}\%$
23. 2% 0.02 2:100 $\frac{2}{50}$ 24. 48:100 48% $\frac{12}{50}$ 0.48
25. 0.15 $\frac{150}{100}$ 150% 150:100 26. 99% 99:100 $\frac{9}{10}$ 0.99
27. 0.875 87:100 $87\frac{1}{2}\%$ $\frac{7}{8}$ 28. 0.3 $\frac{3}{10}$ 30:100 3%