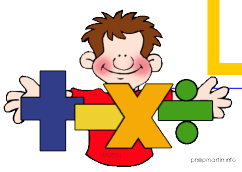
Secondary Math Summer Practice

Math Connections



Math Course 1—Week 2 Answers

Distributive Property 2.3.3 Answers

Answers

1. $(6 \cdot 9) + (6 \cdot 4) = 54 + 24 = 78$
2. $(4 \cdot 9) + (4 \cdot 8) = 36 + 32 = 68$
3. $56 + 42 = 98$
4. $35 + 20 = 55$
5. $60 + 21 = 81$
6. $240 + 36 = 276$
7. $320 + 24 = 344$
8. $420 + 48 = 468$
9. $3x + 18$
10. $5x + 35$
11. $8x - 32$
12. $6x - 60$
13. $4x + 32$
14. $5x + 10$
15. $-7x - 7$
16. $-4y - 12$
17. $-3y + 15$
18. $-5b + 20$
19. $-x - 6$
20. $-x - 7$
21. $-x + 4$
22. $x + 3$
23. $x^2 + 3x$
24. $4x^2 + 8x$
25. $-5x^2 + 7x$
26. $-2x^2 + 6x$

Distributive Property 2.3.4 Answers

Answers

1. $6(x + 2)$
2. $5(y - 2)$
3. $4(2x + 5z)$
4. $x(x + y)$
5. $8(m + 3)$
6. $8(2y + 5)$
7. $4(2m - 1)$
8. $5(5y - 2)$
9. $2x(x - 5)$
10. $21(x^2 - 3)$
11. $21x(x - 3)$
12. $5(3y + 7)$
13. $4(x + y + z)$
14. $6(x + 2y + 1)$
15. $7(2x^2 - 7x + 4)$
16. $x(x - 1 + y)$

Equivalent Fractions 3.1.1 Answers

Answers

1. $\frac{5}{5}, 20$ 2. $\frac{4}{4}, 20$ 3. $\frac{19}{19}, 171$ 4. $\frac{4}{4}, 12$ 5. $\frac{6}{6}, 30$ 6. $\frac{3}{3}, 18$

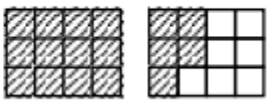
Fraction Decimal Percent Equivalents 3.1.2-3.1.5 Answers

Answers

1. 0.25
2. $\frac{1}{2}$
3. $\frac{3}{4}$
4. 0.75
5. 38%
6. 20%
7. $\frac{3}{10}$
8. 0.125
9. $0.3\overline{3}$
10. 8%
11. 0.87
12. 60%
13. $\frac{2}{5}$
14. $\frac{13}{20}$
15. $0.1\overline{1}$
16. $\frac{5}{4}$ or $1\frac{1}{4}$
17. 1.6
18. 325%
19. 0.0625; 6.25%
20. $0.\overline{142859}$
21. $\frac{43}{100}$; 0.43
22. $37\frac{1}{2}\%$; $\frac{3}{8}$
23. 0.875; 87.5%
24. $\frac{12}{99} = \frac{4}{33}$
25. $\frac{175}{999}$

Operations with Fractions 3.1.2 Answers

Answers

1. $\frac{19}{20}$ 
2. $\frac{13}{21}$ 
3. $\frac{17}{12} = 1\frac{5}{12}$ 

Ratios 3.1.6 Answers

Answers

1. a. $\frac{5}{3}$ b. $\frac{2}{3}$ c. $\frac{2}{10} = \frac{1}{5}$
2. a. $\frac{20}{16} = \frac{5}{4}$ b. $\frac{16}{20} = \frac{4}{5}$ c. $\frac{2}{36}$ d. $\frac{2}{38}$
3. 9 c. apple, 15 c. cranberry, 6 c. ginger ale
4. $7\frac{1}{2}$ c. apple, $12\frac{1}{2}$ c. cranberry, 5 c. ginger ale

Operations with Integers 3.2.1 and 3.2.2 Answers

Answers

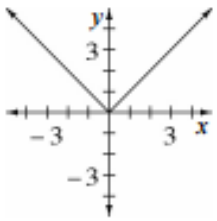
1. 2	2. 5	3. 0	4. –4	5. –6	6. –5
7. –13	8. –12	9. –27	10. 2	11. 8	12. –14
13. 7	14. 73	15. –6	16. –69	17. 37	18. 161
19. 60	20. 0	21. –8	22. –2	23. 0	24. –50
25. –2	26. –39	27. –15	28. 1	29. 10	30. 21

Absolute Value 3.2.3 Answers

Answers

1. 11	2. 12	3. 4, – 4	4. 16, –16	5. 24, –24
6. 13, –13	7. 9	8. no solution	9. 13, –13	10. –7
11. 7, –7	12. 7	13. 3	14. 9	15. 3

16.



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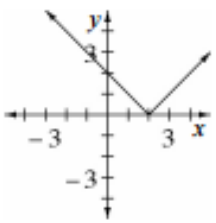

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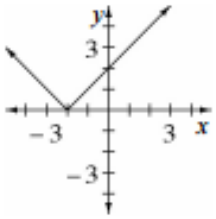

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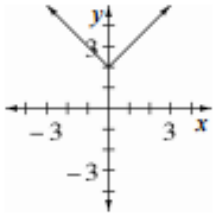

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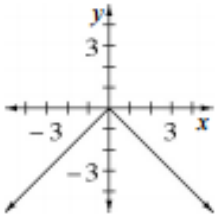

Four Quadrant Graphing 3.2.4 Answers

Answers

1. *S*(2, 2)
   T(–1, –6)
   U(0, 6)
   V(1, –4)
   W(–6, 0)
   Z(–5, 3)

2.