7th Grade

Parent Information

April 13-24

- Recommended daily math practice time: 30-40 minutes
- There are 13 "skills practice" pages – Recommendation is to work 15-20 problems per day from pages of your child's choice. However, the goal is practice and remembering how to work problems correctly. Adjust the number of problems based on how long it takes your child to complete.
- Answer keys are at the end of the document.

Addition and Subtraction with Rational Numbers—Skills Practice

Name: _____

Add integers.

Form A

1. $-5 + (-3) =$ _____
2. $14 + (-4) + 6 + (-16) =$ _____
3. $9 + (-4) =$ _____
4. $15 + (-7) + (-3) =$ _____
5. $-17 + 16 =$ _____
6. $-18 + (-17) =$ _____
7. $14 + (-16) =$ _____
8. $-16 + (-7) + (-4) =$ _____
9. $-19 + 36 =$ _____
10. $19 + 13 + (-9) =$ _____
11. $-17 + 14 + 7 + 10 =$ _____
12. $-12 + (-7) =$ _____
13. $-8 + 14 + (-2) + 6 =$ _____
14. $-17 + (-19) =$ _____
15. $79 + (-24) =$ _____
16. $23 + 14 + (-3) =$ _____
17. $-8 + 11 =$ _____
18. $-9 + 43 + (-11) =$ _____
19. $-6 + 12 + (-12) + 6 =$ _____
20. $16 + (-26) =$ _____
21. $45 + (-33) =$ _____
22. $18 + 19 + (-8) + (-19) + 7 =$ _____
23. $15 + (-3) + (-2) + 11 + 9 =$ _____
24. $7 + (-14) + (-6) + 13 + 4 =$ _____

Addition and Subtraction with Rational Numbers—Skills Practice

Name: _____

Subtract integers.

Form A

1. $-8 - (-14) =$ ____
2. $-8 - 4 - (-8) =$ ____
3. $17 - (-8) =$ ____
4. $6 - (-7) - (-3) - 16 =$ ____
5. $-12 - 4 =$ ____
6. $-13 - (-7) =$ ____
7. $6 - (-3) =$ ____
8. $-5 - (-17) - (-5) =$ ____
9. $-62 - (-11) =$ ____
10. $-4 - 8 - 16 =$ ____
11. $-8 - 15 =$ ____
12. $4 - 17 - (-6) - 3 =$ ____
13. $11 - (-15) =$ ____
14. $-46 - 21 =$ ____
15. $41 - (-13) - 21 =$ ____
16. $14 - (-17) =$ ____
17. $55 - (-29) - (-45) =$ ____
18. $8 - (-14) - (-2) - 4 =$ ____
19. $6 - 7 - (-4) - 3 =$ ____
20. $-25 - 25 =$ ____
21. $30 - (-15) - 40 =$ ____
22. $-7 - (-14) - 4 - (-27) - 5 =$ ____
23. $-12 - (-7) - (-19) - (-13) - (-2) =$ ____
24. $-11 - (-5) - 9 - (-13) - (-5) =$ ____
25. $8 - (-3) - 10 - (-12) - (-7) =$ ____

Addition and Subtraction with Rational Numbers—Skills Practice

Name: _____

Add rational numbers.

Form A

1. $-7.25 + 8.67 =$ _____

2. $-\frac{5}{6} + 7 + \left(-\frac{1}{6}\right) =$ _____

3. $-5 + \frac{1}{4} =$ _____

4. $9 + (-10.2) =$ _____

5. $-\frac{1}{8} + \left(-\frac{7}{8}\right) =$ _____

6. $-\frac{5}{8} + \left(-\frac{1}{8}\right) + \frac{3}{4} =$ _____

7. $15.4 + (-16) =$ _____

8. $-1\frac{2}{5} + \frac{4}{5} =$ _____

9. $-8 + \left(-3\frac{1}{2}\right) =$ _____

10. $-18.04 + 7.9 =$ _____

11. $-11 + (-4.25) =$ _____

12. $-\frac{5}{6} + \left(-\frac{5}{6}\right) =$ _____

13. $\frac{2}{3} + \left(-\frac{1}{3}\right) =$ _____

14. $5.3 + (-16.4) =$ _____

15. $1\frac{3}{4} + \left(-\frac{1}{2}\right) + \left(-\frac{1}{4}\right) =$ _____

16. $-5.75 + 10 =$ _____

17. $-8.9 + (-7.2) + 18.9 =$ _____

18. $-4.2 + (-3.7) =$ _____

19. $3.5 + (-13.5) + (-5.6) =$ _____

20. $-3\frac{1}{6} + (-8) =$ _____

Addition and Subtraction with Rational Numbers—Skills Practice

Name: _____

Add and subtract rational numbers.

Form A

1. $4\frac{3}{4} - \left(-2\frac{1}{4}\right) =$ _____
2. $-16.5 - 11 =$ _____
3. $\frac{1}{5} - \left(-\frac{4}{5}\right) =$ _____
4. $7.75 - 14.25 =$ _____
5. $-8\frac{1}{3} - (-4) =$ _____
6. $-15.7 - (-16.2) =$ _____
7. $8.7 - (-5.2) =$ _____
8. $6\frac{5}{6} - 9\frac{1}{6} =$ _____
9. $6.2 - (-6.8) =$ _____
10. $11.92 - 4.5 =$ _____
11. $2\frac{1}{4} - 8\frac{1}{2} + 7\frac{3}{4} =$ _____
12. $4.2 - 17.6 + 5.8 =$ _____
13. $-12.6 + 4.2 - (-2.6) =$ _____
14. $-5\frac{2}{5} - 8\frac{4}{5} + 15\frac{2}{5} =$ _____
15. $-6.5 + 11 - (-6.5) =$ _____
16. $\frac{1}{6} - (-7) + 3 - \left(-\frac{5}{6}\right) =$ _____
17. $\frac{1}{4} - 1\frac{3}{4} + 2\frac{3}{4} - \left(-2\frac{3}{4}\right) =$ _____
18. $-6.1 - 6 - (-6.1) + 16 =$ _____
19. $1.25 - 2.75 - (-3.75) + (-7.25) =$ _____
20. $8\frac{1}{5} - \frac{3}{5} + \left(-\frac{4}{5}\right) - \left(-1\frac{2}{5}\right) =$ _____

Multiplication and Division with Rational Numbers—Skills Practice

Name: _____

Multiply rational numbers.

Form A

1. $-\frac{3}{5} \times \left(-\frac{5}{8}\right) =$ _____

2. $2 \times (-5) \times 3 \times (-4) =$ _____

3. $-0.2 \times (-0.4) =$ _____

4. $-\frac{1}{6} \times \frac{5}{6} =$ _____

5. $-9 \times (-4) =$ _____

6. $-8 \times 7 =$ _____

7. $0.2 \times (-0.05) \times 0.3 =$ _____

8. $-0.6 \times 0.03 =$ _____

9. $6 \times (-6) =$ _____

10. $-\frac{1}{5} \times \frac{3}{5} \times \frac{4}{5} =$ _____

11. $-\frac{1}{4} \times \left(-\frac{3}{4}\right) =$ _____

12. $-0.5 \times 0.4 \times 0.3 =$ _____

13. $0.5 \times (-0.7) =$ _____

14. $-7 \times (-3) \times (-4) =$ _____

15. $-7 \times (-4) =$ _____

16. $\frac{1}{3} \times \left(-\frac{2}{3}\right) =$ _____

17. $5 \times (-8) =$ _____

18. $-2 \times -6 \times -3 =$ _____

19. $-10 \times 14 =$ _____

20. $-\frac{5}{8} \times \frac{2}{5} \times \left(-\frac{1}{4}\right) =$ _____

21. $100 \times (-9) =$ _____

22. $-\frac{1}{4} \times \frac{3}{2} \times \frac{1}{2} =$ _____

23. $-0.5 \times 0.1 \times (-0.2) \times (-0.4) =$ _____

24. $-\frac{1}{2} \times \frac{3}{2} \times \frac{5}{2} \times \left(-\frac{1}{2}\right) =$ _____

Multiplication and Division with Rational Numbers—Skills Practice

Name: _____

Form A

Divide rational numbers.

1. $-\frac{1}{3} \div \left(-\frac{1}{6}\right) =$ _____
2. $56 \div (-8) =$ _____
3. $-3.6 \div 0.1 =$ _____
4. $-\frac{1}{2} \div \frac{1}{8} =$ _____
5. $-44 \div (-4) =$ _____
6. $-9.8 \div (-1) =$ _____
7. $\frac{1}{6} \div \left(-\frac{1}{6}\right) =$ _____
8. $6.4 \div (-2) =$ _____
9. $35 \div (-5) =$ _____
10. $-\frac{3}{4} \div \left(-\frac{1}{2}\right) =$ _____
11. $-90 \div 9 =$ _____
12. $\frac{2}{5} \div \left(-\frac{2}{3}\right) =$ _____
13. $-8.9 \div 10 =$ _____
14. $-36 \div (-3) =$ _____
15. $-24 \div (-0.2) =$ _____
16. $-\frac{5}{3} \div \frac{5}{6} =$ _____
17. $-100 \div (-50) =$ _____
18. $5.5 \div (-0.5) =$ _____
19. $\frac{1}{8} \div \left(-\frac{1}{5}\right) =$ _____
20. $-7.5 \div (-2.5) =$ _____
21. $-32 \div 4 =$ _____
22. $-3.6 \div 1.2 =$ _____
23. $-42 \div (-6) =$ _____
24. $-\frac{1}{3} \div \left(-\frac{1}{3}\right) =$ _____

Expressing Rational Numbers as Decimals—Skills Practice

Name: _____

Write fractions as decimals.

Form A

1. $-\frac{4}{5} =$ _____
2. $-\frac{1}{2} =$ _____
3. $-\frac{5}{9} =$ _____
4. $-\frac{2}{3} =$ _____
5. $-\frac{2}{9} =$ _____
6. $\frac{2}{5} =$ _____
7. $\frac{9}{2} =$ _____
8. $\frac{5}{3} =$ _____
9. $-\frac{7}{5} =$ _____
10. $-\frac{1}{4} =$ _____
11. $-\frac{10}{9} =$ _____
12. $\frac{3}{2} =$ _____
13. $\frac{7}{2} =$ _____
14. $-\frac{8}{5} =$ _____
15. $\frac{5}{6} =$ _____
16. $-\frac{11}{4} =$ _____
17. $\frac{5}{12} =$ _____
18. $\frac{7}{6} =$ _____
19. $-\frac{5}{8} =$ _____
20. $\frac{5}{4} =$ _____
21. $\frac{9}{8} =$ _____

Using Properties of Operations—Skills Practice

Name: _____

Write an equivalent expression without parentheses, and combine terms if possible.

Form A

1. $5x + 6x =$ _____
2. $6n - 3(2n - 5) =$ _____
3. $0.5(-12p - 4) =$ _____
4. $\frac{1}{4}y + \frac{3}{4}(y - 8) =$ _____
5. $4(x - 6) + 30 =$ _____
6. $-8\left(m + \frac{1}{4}\right) =$ _____
7. $-8x - 4x + 3x + 2 =$ _____
8. $4.5a + 7 + 3.5a + 2 =$ _____
9. $-4 + 7y - 3y - 5 =$ _____
10. $\frac{1}{6}(12n + 36) =$ _____
11. $3(y + 7) - 5y =$ _____
12. $9y - 4x + 3y + 4x =$ _____
13. $8(6a + 7) =$ _____
14. $\frac{1}{6}y + 6 - \frac{7}{6}y - 4 =$ _____
15. $\frac{3}{2}x - \frac{1}{2}(x + 4) =$ _____
16. $6 + 2x + 4(x + 5) =$ _____
17. $-8(x + 3) =$ _____
18. $3y + 3(y - 2.5) =$ _____
19. $9\left(-\frac{1}{3}m + 4\right) - 6m =$ _____
20. $6.25m + 9 + 3.75m - 12 =$ _____

Using Properties of Operations—Skills Practice

Name: _____

Use the distributive property to write the expression as a product. **Form A**

1. $7x + 7 =$ _____
2. $6y + 14 - 8y =$ _____
3. $25x - 5 =$ _____
4. $16y + (-4) =$ _____
5. $4 - 8y =$ _____
6. $-8x - 16 =$ _____
7. $-11x - 44 =$ _____
8. $10 + 70x =$ _____
9. $10 - (-4y) =$ _____
10. $-2x + 12 - 4x =$ _____
11. $-25y + (-55) =$ _____
12. $20y - (-5) =$ _____
13. $-21x + 14 =$ _____
14. $18x - 33 =$ _____
15. $4y + 22 + 7y =$ _____
16. $-7 + (-21x) =$ _____
17. $6 + (-12y) =$ _____
18. $-5x + 33 + 16x =$ _____
19. $15y - 35 =$ _____
20. $-40y + 100 =$ _____

Two-Step Equations—Skills Practice

Name: _____

Solve equations of form $px + q = r$ with integers.

Form A

1. $6x + 6 = 0$
2. $-3x + 9 = 6$
3. $5x + 4 = -6$
4. $-275 = 25x - 50$
5. $90 = 20x - 10$
6. $46 = 3x + 19$
7. $-15x - 45 = -45$
8. $12x - 14 = -38$
9. $97 = 10x + 27$
10. $-6x - 13 = 35$
11. $-127 = -50x + 23$
12. $8x + 5 = -3$
13. $7x + 4 = -38$
14. $-4x - 52 = -152$
15. $-8 = -6x - 2$
16. $-25 = 10x - 25$

Two-Step Equations—Skills Practice

Name: _____

Solve equations of form $px + q = r$ with rational numbers. **Form A**

1. $-3x + 6 = 9.9$

2. $8\frac{3}{5} = -4x + 5\frac{3}{5}$

3. $1.2x + 5.3 = 0.5$

4. $-\frac{1}{4}x + 6 = 10$

5. $7 = 11 - 0.2x$

6. $0.4x + 15 = 39.8$

7. $1\frac{3}{8} = \frac{1}{4}x + 1$

8. $\frac{2}{3}x - 4 = 36$

9. $\frac{1}{5} = \frac{7}{5} - \frac{1}{10}x$

10. $-8.2 = -7.1 + 11x$

11. $-13\frac{3}{4} = -\frac{7}{10}x + \frac{1}{4}$

12. $\frac{1}{8}x + \frac{3}{4} = \frac{1}{4}$

13. $-5.6x + 8.8 = 3.2$

14. $8x - 4\frac{2}{3} = 19\frac{1}{3}$

Two-Step Equations—Skills Practice

Name: _____

Solve equations of form $p(x + q) = r$ with integers.

Form A

1. $6(x + 4) = 36$
2. $21 = 7(x + 3)$
3. $56 = -8(x + 9)$
4. $2(x - 6) = -26$
5. $-4(x - 5) = -44$
6. $5(x + 4) = 35$
7. $-6(x - 12) = 48$
8. $-9 = -9(x + 4)$
9. $10(x - 15) = -70$
10. $-2(x - 13) = 18$
11. $-36 = 12(x + 7)$
12. $-7(x + 7) = 49$
13. $3(x - 6) = 24$
14. $-24 = 4(x - 6)$
15. $-11(x + 2) = -66$
16. $8(x - 14) = 64$

Two-Step Equations—Skills Practice

Name: _____

Solve equations of form $p(x + q) = r$ with rational numbers. **Form A**

1. $-\frac{1}{8}(x + 6) = \frac{1}{8}$

2. $0.25(p + 8) = 2$

3. $-0.2(w - 6) = -4$

4. $\frac{2}{5}(y + 5) = \frac{4}{5}$

5. $-6.9 = 3(x + 4.6)$

6. $-25(p - 7) = -2.5$

7. $\frac{1}{3} = \frac{1}{6}(m - 9)$

8. $4.5 = 5(x + 3)$

9. $10(x - 24.2) = 50$

10. $\frac{1}{4}(n + 2) = -\frac{5}{2}$

11. $11(x - 0.4) = 44$

12. $20 = \frac{5}{6}(m + 8)$

13. $-\frac{1}{5}(y + 2) = 4$

14. $7.6 = 2(n + 5.7)$

Addition and Subtraction with Rational Numbers—Skills Practice

Name: Answer Key

Form A

Add integers.

1. $-5 + (-3) =$ -8
2. $14 + (-4) + 6 + (-16) =$ 0
3. $9 + (-4) =$ 5
4. $15 + (-7) + (-3) =$ 5
5. $-17 + 16 =$ -1
6. $-18 + (-17) =$ -35
7. $14 + (-16) =$ -2
8. $-16 + (-7) + (-4) =$ -27
9. $-19 + 36 =$ 17
10. $19 + 13 + (-9) =$ 23
11. $-17 + 14 + 7 + 10 =$ 14
12. $-12 + (-7) =$ -19
13. $-8 + 14 + (-2) + 6 =$ 10
14. $-17 + (-19) =$ -36
15. $79 + (-24) =$ 55
16. $23 + 14 + (-3) =$ 34
17. $-8 + 11 =$ 3
18. $-9 + 43 + (-11) =$ 23
19. $-6 + 12 + (-12) + 6 =$ 0
20. $16 + (-26) =$ -10
21. $45 + (-33) =$ 12
22. $18 + 19 + (-8) + (-19) + 7 =$ 17
23. $15 + (-3) + (-2) + 11 + 9 =$ 30
24. $7 + (-14) + (-6) + 13 + 4 =$ 4

Addition and Subtraction with Rational Numbers—Skills Practice

Name: Answer Key

Subtract integers.

Form A

1. $-8 - (-14) = 6$
2. $-8 - 4 - (-8) = -4$
3. $17 - (-8) = 25$
4. $6 - (-7) - (-3) - 16 = 0$
5. $-12 - 4 = -16$
6. $-13 - (-7) = -6$
7. $6 - (-3) = 9$
8. $-5 - (-17) - (-5) = 17$
9. $-62 - (-11) = -51$
10. $-4 - 8 - 16 = -28$
11. $-8 - 15 = -23$
12. $4 - 17 - (-6) - 3 = -10$
13. $11 - (-15) = 26$
14. $-46 - 21 = -67$
15. $41 - (-13) - 21 = 33$
16. $14 - (-17) = 31$
17. $55 - (-29) - (-45) = 129$
18. $8 - (-14) - (-2) - 4 = 20$
19. $6 - 7 - (-4) - 3 = 0$
20. $-25 - 25 = -50$
21. $30 - (-15) - 40 = 5$
22. $-7 - (-14) - 4 - (-27) - 5 = 25$
23. $-12 - (-7) - (-19) - (-13) - (-2) = 29$
24. $-11 - (-5) - 9 - (-13) - (-5) = 3$
25. $8 - (-3) - 10 - (-12) - (-7) = 20$

Addition and Subtraction with Rational Numbers—Skills Practice

Name: Answer Key

Add rational numbers.

Form A

1. $-7.25 + 8.67 =$ 1.42
2. $-\frac{5}{6} + 7 + \left(-\frac{1}{6}\right) =$ 6
3. $-5 + \frac{1}{4} =$ $-4\frac{3}{4}$
4. $9 + (-10.2) =$ -1.2
5. $-\frac{1}{8} + \left(-\frac{7}{8}\right) =$ -1
6. $-\frac{5}{8} + \left(-\frac{1}{8}\right) + \frac{3}{4} =$ 0
7. $15.4 + (-16) =$ -0.6
8. $-1\frac{2}{5} + \frac{4}{5} =$ $-\frac{3}{5}$
9. $-8 + \left(-3\frac{1}{2}\right) =$ $-11\frac{1}{2}$
10. $-18.04 + 7.9 =$ -10.14
11. $-11 + (-4.25) =$ -15.25
12. $-\frac{5}{6} + \left(-\frac{5}{6}\right) =$ $-1\frac{2}{3}$
13. $\frac{2}{3} + \left(-\frac{1}{3}\right) =$ $\frac{1}{3}$
14. $5.3 + (-16.4) =$ -11.1
15. $1\frac{3}{4} + \left(-\frac{1}{2}\right) + \left(-\frac{1}{4}\right) =$ 1
16. $-5.75 + 10 =$ 4.25
17. $-8.9 + (-7.2) + 18.9 =$ 2.8
18. $-4.2 + (-3.7) =$ -7.9
19. $3.5 + (-13.5) + (-5.6) =$ -15.6
20. $-3\frac{1}{6} + (-8) =$ $-11\frac{1}{6}$

Addition and Subtraction with Rational Numbers—Skills Practice

Name: Answer Key

Add and subtract rational numbers.

Form A

1. $4\frac{3}{4} - \left(-2\frac{1}{4}\right) =$ 7
2. $-16.5 - 11 =$ -27.5
3. $\frac{1}{5} - \left(-\frac{4}{5}\right) =$ 1
4. $7.75 - 14.25 =$ -6.5
5. $-8\frac{1}{3} - (-4) =$ $-4\frac{1}{3}$
6. $-15.7 - (-16.2) =$ 0.5
7. $8.7 - (-5.2) =$ 13.9
8. $6\frac{5}{6} - 9\frac{1}{6} =$ $-2\frac{1}{3}$ or $\frac{-7}{3}$
9. $6.2 - (-6.8) =$ 13
10. $11.92 - 4.5 =$ 7.42
11. $2\frac{1}{4} - 8\frac{1}{2} + 7\frac{3}{4} =$ $1\frac{1}{2}$
12. $4.2 - 17.6 + 5.8 =$ -7.6
13. $-12.6 + 4.2 - (-2.6) =$ -5.8
14. $-5\frac{2}{5} - 8\frac{4}{5} + 15\frac{2}{5} =$ $1\frac{1}{5}$
15. $-6.5 + 11 - (-6.5) =$ 11
16. $\frac{1}{6} - (-7) + 3 - \left(-\frac{5}{6}\right) =$ 11
17. $\frac{1}{4} - 1\frac{3}{4} + 2\frac{3}{4} - \left(-2\frac{3}{4}\right) =$ 4
18. $-6.1 - 6 - (-6.1) + 16 =$ 10
19. $1.25 - 2.75 - (-3.75) + (-7.25) =$ -5
20. $8\frac{1}{5} - \frac{3}{5} + \left(-\frac{4}{5}\right) - \left(-1\frac{2}{5}\right) =$ $8\frac{1}{5}$

Multiplication and Division with Rational Numbers—Skills Practice

Name: Answer Key

Form A

Multiply rational numbers.

1. $-\frac{3}{5} \times \left(-\frac{5}{8}\right) =$ $\frac{15}{40}$ or $\frac{3}{8}$
2. $2 \times (-5) \times 3 \times (-4) =$ 120
3. $-0.2 \times (-0.4) =$ 0.08
4. $-\frac{1}{6} \times \frac{5}{6} =$ $\frac{-5}{36}$
5. $-9 \times (-4) =$ 36
6. $-8 \times 7 =$ -56
7. $0.2 \times (-0.05) \times 0.3 =$ -0.003
8. $-0.6 \times 0.03 =$ -0.018
9. $6 \times (-6) =$ -36
10. $-\frac{1}{5} \times \frac{3}{5} \times \frac{4}{5} =$ $\frac{-12}{125}$
11. $-\frac{1}{4} \times \left(-\frac{3}{4}\right) =$ $\frac{3}{16}$
12. $-0.5 \times 0.4 \times 0.3 =$ -0.06
13. $0.5 \times (-0.7) =$ -0.35
14. $-7 \times (-3) \times (-4) =$ -84
15. $-7 \times (-4) =$ 28
16. $\frac{1}{3} \times \left(-\frac{2}{3}\right) =$ $\frac{-2}{9}$
17. $5 \times (-8) =$ -40
18. $-2 \times -6 \times -3 =$ -36
19. $-10 \times 14 =$ -140
20. $-\frac{5}{8} \times \frac{2}{5} \times \left(-\frac{1}{4}\right) =$ $\frac{10}{160}$ or $\frac{1}{16}$
21. $100 \times (-9) =$ -900
22. $-\frac{1}{4} \times \frac{3}{2} \times \frac{1}{2} =$ $\frac{-3}{16}$
23. $-0.5 \times 0.1 \times (-0.2) \times (-0.4) =$ -0.004
24. $-\frac{1}{2} \times \frac{3}{2} \times \frac{5}{2} \times \left(-\frac{1}{2}\right) =$ $\frac{15}{16}$

Multiplication and Division with Rational Numbers—Skills Practice

Name: Answer Key

Form A

Divide rational numbers.

1. $-\frac{1}{3} \div \left(-\frac{1}{6}\right) =$ $\frac{6}{3}$ or 2
2. $56 \div (-8) =$ -7
3. $-3.6 \div 0.1 =$ -36
4. $-\frac{1}{2} \div \frac{1}{8} =$ $\frac{-8}{2}$ or -4
5. $-44 \div (-4) =$ 11
6. $-9.8 \div (-1) =$ 9.8
7. $\frac{1}{6} \div \left(-\frac{1}{6}\right) =$ $\frac{-6}{6}$ or -1
8. $6.4 \div (-2) =$ -3.2
9. $35 \div (-5) =$ -7
10. $-\frac{3}{4} \div \left(-\frac{1}{2}\right) =$ $\frac{6}{4}$ or $\frac{3}{2}$ or $1\frac{1}{2}$
11. $-90 \div 9 =$ -10
12. $\frac{2}{5} \div \left(-\frac{2}{3}\right) =$ $\frac{-6}{10}$ or $\frac{-3}{5}$
13. $-8.9 \div 10 =$ -0.89
14. $-36 \div (-3) =$ 12
15. $-24 \div (-0.2) =$ 120
16. $-\frac{5}{3} \div \frac{5}{6} =$ -2
17. $-100 \div (-50) =$ 2
18. $5.5 \div (-0.5) =$ -11
19. $\frac{1}{8} \div \left(-\frac{1}{5}\right) =$ $\frac{-5}{8}$
20. $-7.5 \div (-2.5) =$ 3
21. $-32 \div 4 =$ -8
22. $-3.6 \div 1.2 =$ -3
23. $-42 \div (-6) =$ 7
24. $-\frac{1}{3} \div \left(-\frac{1}{3}\right) =$ 1

Expressing Rational Numbers as Decimals—Skills Practice

Name: Answer Key

Form A

Write fractions as decimals.

1. $-\frac{4}{5} = -0.8$
2. $-\frac{1}{2} = -0.5$
3. $-\frac{5}{9} = -0.\overline{5}$
4. $-\frac{2}{3} = -0.\overline{6}$
5. $-\frac{2}{9} = -0.\overline{2}$
6. $\frac{2}{5} = 0.4$
7. $\frac{9}{2} = 4.5$
8. $\frac{5}{3} = 1.\overline{6}$
9. $-\frac{7}{5} = -1.4$
10. $-\frac{1}{4} = -0.25$
11. $-\frac{10}{9} = -1.\overline{1}$
12. $\frac{3}{2} = 1.5$
13. $\frac{7}{2} = 3.5$
14. $-\frac{8}{5} = -1.6$
15. $\frac{5}{6} = 0.8\overline{3}$
16. $-\frac{11}{4} = -2.75$
17. $\frac{5}{12} = 0.41\overline{6}$
18. $\frac{7}{6} = 1.\overline{16}$
19. $-\frac{5}{8} = -0.625$
20. $\frac{5}{4} = 1.25$
21. $\frac{9}{8} = 1.125$

Using Properties of Operations—Skills Practice

Name: Answer Key

Form A

Write an equivalent expression without parentheses, and combine terms if possible.

1. $5x + 6x =$ $11x$
2. $6n - 3(2n - 5) =$ 15
3. $0.5(-12p - 4) =$ $-6p - 2$
4. $\frac{1}{4}y + \frac{3}{4}(y - 8) =$ $y - 6$
5. $4(x - 6) + 30 =$ $4x + 6$
6. $-8\left(m + \frac{1}{4}\right) =$ $-8m - 2$
7. $-8x - 4x + 3x + 2 =$ $-9x + 2$
8. $4.5a + 7 + 3.5a + 2 =$ $8a + 9$
9. $-4 + 7y - 3y - 5 =$ $4y - 9$
10. $\frac{1}{6}(12n + 36) =$ $2n + 6$
11. $3(y + 7) - 5y =$ $-2y + 21$
12. $9y - 4x + 3y + 4x =$ $12y$
13. $8(6a + 7) =$ $48a + 56$
14. $\frac{1}{6}y + 6 - \frac{7}{6}y - 4 =$ $-y + 2$
15. $\frac{3}{2}x - \frac{1}{2}(x + 4) =$ $x - 2$
16. $6 + 2x + 4(x + 5) =$ $6x + 26$
17. $-8(x + 3) =$ $-8x - 24$
18. $3y + 3(y - 2.5) =$ $6y - 7.5$
19. $9\left(-\frac{1}{3}m + 4\right) - 6m =$ $-9m + 36$
20. $6.25m + 9 + 3.75m - 12 =$ $10m - 3$

Using Properties of Operations—Skills Practice

Name: Answer Key

*Problems may have more than 1 answer

Use the distributive property to write the expression as a product.

Form A

1. $7x + 7 =$ $7(x+1)$
2. $6y + 14 - 8y =$ $2(7-y)$
3. $25x - 5 =$ $5(5x-1)$
4. $16y + (-4) =$ $4(4y-1)$
5. $4 - 8y =$ $4(1-2y)$
6. $-8x - 16 =$ $-8(x+2)$
7. $-11x - 44 =$ $-11(x+4)$
8. $10 + 70x =$ $10(1+7x)$
9. $10 - (-4y) =$ $2(5+2y)$
10. $-2x + 12 - 4x =$ $6(2-x)$
11. $-25y + (-55) =$ $-5(5y+11)$
12. $20y - (-5) =$ $5(4y+1)$
13. $-21x + 14 =$ $7(-3x+2)$
14. $18x - 33 =$ $3(6x-11)$
15. $4y + 22 + 7y =$ $11(y+2)$
16. $-7 + (-21x) =$ $-7(1+3x)$
17. $6 + (-12y) =$ $6(1-2y)$
18. $-5x + 33 + 16x =$ $11(x+3)$
19. $15y - 35 =$ $5(3y-7)$
20. $-40y + 100 =$ $20(-2y+5)$

Two-Step Equations—Skills Practice

Name: Answer Key

Solve equations of form $px + q = r$ with integers.

Form A

1 $6x + 6 = 0$

$x = -1$

2 $-3x + 9 = 6$

$x = 1$

3 $5x + 4 = -6$

$x = -2$

4 $-275 = 25x - 50$

$x = -9$

5 $90 = 20x - 10$

$x = 5$

6 $46 = 3x + 19$

$x = 9$

7 $-15x - 45 = -45$

$x = 0$

8 $12x - 14 = -38$

$x = -2$

9 $97 = 10x + 27$

$x = 7$

10 $-6x - 13 = 35$

$x = -8$

11 $-127 = -50x + 23$

$x = 3$

12 $8x + 5 = -3$

$x = -1$

13 $7x + 4 = -38$

$x = -6$

14 $-4x - 52 = -152$

$x = 25$

15 $-8 = -6x - 2$

$x = 1$

16 $-25 = 10x - 25$

$x = 0$

Two-Step Equations—Skills Practice

Name: Answer Key

Solve equations of form $px + q = r$ with rational numbers.

Form A

1 $-3x + 6 = 9.9$

$x = -1.3$

2 $8\frac{3}{5} = -4x + 5\frac{3}{5}$

$x = \frac{-3}{4}$

3 $1.2x + 5.3 = 0.5$

$x = -4$

4 $-\frac{1}{4}x + 6 = 10$

$x = -16$

5 $7 = 11 - 0.2x$

$x = 20$

6 $0.4x + 15 = 39.8$

$x = 62$

7 $1\frac{3}{8} = \frac{1}{4}x + 1$

$x = \frac{3}{2}$ or $1\frac{1}{2}$

8 $\frac{2}{3}x - 4 = 36$

$x = 60$

9 $\frac{1}{5} = \frac{7}{5} - \frac{1}{10}x$

$x = 12$

10 $-8.2 = -7.1 + 11x$

$x = -0.1$

11 $-13\frac{3}{4} = -\frac{7}{10}x + \frac{1}{4}$

$x = 20$

12 $\frac{1}{8}x + \frac{3}{4} = \frac{1}{4}$

$x = -4$

13 $-5.6x + 8.8 = 3.2$

$x = 1$

14 $8x - 4\frac{2}{3} = 19\frac{1}{3}$

$x = 3$

Two-Step Equations—Skills Practice

Name: Answer Key

Solve equations of form $p(x + q) = r$ with integers.

Form A

1 $6(x + 4) = 36$

$x = 2$

2 $21 = 7(x + 3)$

$x = 0$

3 $56 = -8(x + 9)$

$x = -16$

4 $2(x - 6) = -26$

$x = -7$

5 $-4(x - 5) = -44$

$x = 16$

6 $5(x + 4) = 35$

$x = 3$

7 $-6(x - 12) = 48$

$x = 4$

8 $-9 = -9(x + 4)$

$x = -3$

9 $10(x - 15) = -70$

$x = 8$

10 $-2(x - 13) = 18$

$x = 4$

11 $-36 = 12(x + 7)$

$x = -10$

12 $-7(x + 7) = 49$

$x = -14$

13 $3(x - 6) = 24$

$x = 14$

14 $-24 = 4(x - 6)$

$x = 0$

15 $-11(x + 2) = -66$

$x = 4$

16 $8(x - 14) = 64$

$x = 22$

Two-Step Equations—Skills Practice

Name: Answer Key

Solve equations of form $p(x + q) = r$ with rational numbers.

Form A

1 $-\frac{1}{8}(x + 6) = \frac{1}{8}$

$x = -7$

2 $0.25(p + 8) = 2$

$p = 0$

3 $-0.2(w - 6) = -4$

$w = 26$

4 $\frac{2}{5}(y + 5) = \frac{4}{5}$

$y = -3$

5 $-6.9 = 3(x + 4.6)$

$x = -6.9$

6 $-25(p - 7) = -2.5$

$p = 7.1$

7 $\frac{1}{3} = \frac{1}{6}(m - 9)$

$m = 11$

8 $4.5 = 5(x + 3)$

$x = -2.1$

9 $10(x - 24.2) = 50$

$x = 29.2$

10 $\frac{1}{4}(n + 2) = -\frac{5}{2}$

$n = -12$

11 $11(x - 0.4) = 44$

$x = 4.4$

12 $20 = \frac{5}{6}(m + 8)$

$m = 16$

13 $-\frac{1}{5}(y + 2) = 4$

$y = -22$

14 $7.6 = 2(n + 5.7)$

$n = -1.9$