

## Indicator 4 Extra Practice

Convert to decimals.

1.  $\frac{2}{5}$

6.  $-\frac{45}{8}$

2.  $-\frac{3}{8}$

7.  $3\frac{3}{5}$

3.  $\frac{13}{10}$

8.  $-9\frac{3}{4}$

4.  $-\frac{11}{20}$

9.  $24\frac{3}{5}$

5.  $\frac{39}{4}$

10.  $-13\frac{1}{4}$

Convert to fractions.

11. 0.22

16. -4.2

12. -0.16

17. 12.15

13. 0.15

18. -2.88

14. -0.04

19. 4.28

15. 1.75

20. -2.22

## Indicator 5 Extra Practice – Rational Fractions

Add. All answers must be fractions in simplest form. Leave improper fractions as they are unless they can be converted to whole numbers.

1.  $-\frac{7}{8} + \frac{1}{4}$

4.  $-\frac{9}{2} + \frac{5}{12}$

7.  $3\frac{4}{9} + \left(-\frac{2}{3}\right)$

2.  $\frac{3}{5} + \left(-\frac{4}{15}\right)$

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

8.  $-\frac{7}{2} + 3\frac{2}{3}$

3.  $-\frac{7}{10} + \frac{3}{5}$

6.  $-7 + 4\frac{5}{6}$

9.  $3\frac{1}{5} + \left(-2\frac{3}{4}\right)$

Subtract. All answers must be fractions in simplest form. Leave improper fractions as they are unless they can be converted to whole numbers.

1.  $-\frac{3}{7} - \frac{5}{7}$

4.  $-\frac{7}{3} - \frac{8}{15}$

7.  $-2\frac{2}{3} - \left(-4\frac{1}{2}\right)$

2.  $\frac{7}{12} - \left(-\frac{11}{12}\right)$

5.  $-\frac{7}{8} - \left(-\frac{5}{6}\right)$

8.  $-4\frac{3}{10} - 2\frac{3}{4}$

3.  $-\frac{1}{3} - \frac{9}{4}$

6.  $-1\frac{5}{6} - 2\frac{1}{3}$

9.  $-5 - 6\frac{5}{6}$

## Indicator 5 Extra Practice – Rational Decimals

Add.

1.  $5.6 + (-1.3)$

4.  $7.26 + (-13.43)$

7.  $3.6 + (-2.44)$

2.  $-8.2 + 5.4$

5.  $-18.02 + 15.68$

8.  $-8.2 + 9.02$

3.  $7.15 + (-12.23)$

6.  $-15.75 + (-12.7)$

9.  $-4.55 + (-4.71)$

Subtract.

1.  $-12.41 - (-9.95)$

4.  $-102.4 - (-59.9)$

7.  $-6.1 - 5.8$

2.  $2 - 8.25$

5.  $12.01 - (-8.21)$

8.  $-4.125 - (-2.8)$

3.  $5.76 - (-2.31)$

6.  $-7 - 3.2$

9.  $-12.33 - 7.211$

## Indicator 5 Extra Practice – Word Problems

1. Mary has a water cooler that has  $2\frac{5}{6}$  gallons in it. She adds  $1\frac{1}{4}$  gallons. How many gallons are in the water cooler?
2. Your bank account balance is \$36.21. You write a check for \$55.21. What is your balance?
3. Sara has  $4\frac{3}{4}$  yards of red fleece fabric and  $2\frac{2}{3}$  yards of blue fleece fabric. How many more yards of red fleece than blue fleece does she have?
4. On Saturday, you biked 7.5 miles. On Sunday, you biked 8.9 miles. How many more miles did you bike on Sunday than on Saturday?
5. A cook has  $2\frac{2}{3}$  cups of flour. A recipe calls for  $2\frac{3}{4}$  cups of flour. Does the cook have enough flour? If not, how much more does the cook need?
6. To get to Uniontown from Springville, you must go west for 13.7 miles and the north 8.9 miles. How far is Uniontown from Springville?
7. A parasail is at 200.6 feet above the water. After five minutes, the parasail is at 120.8 feet above the water. What is the change in height of the parasail?
8. The value of stock A changes  $-\$3.68$  and the value of stock B changes  $-\$3.72$ . Which stock has the greater loss?

## Indicator 6 Extra Practice – Rational Fractions

Multiply. All answers must be fractions in simplest form. Leave improper fractions as they are unless they can be converted to whole numbers.

1.  $-\frac{7}{8} \cdot \frac{1}{4}$

4.  $-\frac{9}{2} \cdot \frac{5}{12}$

7.  $1\frac{3}{6} \cdot \left(-\frac{2}{3}\right)$

2.  $\frac{3}{5} \cdot \left(-\frac{4}{9}\right)$

5.  $\frac{3}{4} \cdot \left(-\frac{1}{3}\right)$

8.  $-\frac{7}{2} \cdot 3\frac{2}{3}$

3.  $-\frac{7}{10} \cdot \frac{5}{14}$

6.  $-3 \cdot \frac{5}{6}$

9.  $3\frac{1}{5} \cdot \left(-2\frac{3}{4}\right)$

Divide. All answers must be fractions in simplest form. Leave improper fractions as they are unless they can be converted to whole numbers.

1.  $-\frac{3}{7} \div \frac{5}{7}$

4.  $-\frac{2}{3} \div \frac{8}{15}$

7.  $-2\frac{2}{3} \div \left(-1\frac{1}{2}\right)$

2.  $\frac{7}{12} \div \left(-\frac{5}{6}\right)$

5.  $-\frac{7}{8} \div \left(-\frac{5}{6}\right)$

8.  $-3\frac{3}{10} \div 2\frac{3}{4}$

3.  $-\frac{1}{3} \div \frac{10}{3}$

6.  $-1\frac{5}{6} \div 2\frac{1}{3}$

9.  $-5 \div 6\frac{5}{6}$

## Indicator 6 Extra Practice – Rational Decimals

Multiply.

1.  $5.6 \cdot (-0.3)$

4.  $7.26 \cdot (-3)$

7.  $3.6 \cdot (-2.4)$

2.  $-8.2 \cdot 0.4$

5.  $-8.02 \cdot 1.5$

8.  $-8.2 \cdot 1.2$

3.  $7.15 \cdot (-1.3)$

6.  $-5.68 \cdot (-0.23)$

9.  $-4.55 \cdot (-4.7)$

Divide.

1.  $-9 \div 7.2$

4.  $-0.3 \div (-1.5)$

7.  $5.4 \div (-3.6)$

2.  $-3.45 \div (-15)$

5.  $-0.72 \div (-0.9)$

8.  $-0.801 \div (-0.09)$

3.  $-0.18 \div 0.03$

6.  $8.722 \div (-3.56)$

9.  $14.616 \div (-2.32)$

## Indicator 6 Extra Practice – Word Problems

1. How many 0.75-pound packages can be made with 6 pounds of sunflower seeds?
2. A section of a boardwalk is made using 15 boards. Each board is  $9\frac{1}{4}$  inches wide. What is the width of the boardwalk?
3. The elevation of a sunken ship is -120 feet. Your elevation. If a submarine descended at a rate of 2.3 feet per minute, how many minutes would it take to reach the sunken ship?
4. You ran a total of 23.7 miles in 3 cross country races. What is the average number of miles run each race?
5. You lose 3 points for every misspelled word on an essay. You misspelled 24 words. What integers represents the amount of points you lose from the errors?
6. One pound equals 0.45 kilogram. Alisa weighs 81.36 kilograms on her bathroom scale. Determine her weight in pounds.
7. Mr. Thompson buys 12 gallons of ivory paint to do spruce up the outside of his house. How much does one gallon of paint cost a total of \$305.46?