

2.2 Problem Solving With Rational Numbers in Decimal Form, pages 65–73

- 6. Calculate. a) -5.68 + 4.73b) -0.85 - (-2.34)
 - c) 1.8(-4.5) d) $-3.77 \div (-2.9)$
- 7. Evaluate. Round your answer to the nearest tenth, if necessary.
 - a) $5.3 \div 2[7.8 + (-8.3)]$ = $5.3 \div 2$ (_____) Brackets first. = _____× (____) = _____
- 8. One evening in Dauphin, Manitoba, the temperature decreased from 2.4 °C to -3.2 °C. How much did the temperature change?

-3.2 - _____

Sentence:

9. A company lost an average of \$1.2 million per year. How much did the company lose in 4 years?

The company lost _____ in 4 years.

2.3 Problem Solving With Rational Numbers in Fraction Form, pages 75–87

10. Add or subtract.

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

 \leftarrow Find a common denominator

 \leftarrow Add the opposite

$$\leftarrow$$
 Solve \rightarrow

c)
$$-1\frac{1}{2} + \left(-\frac{1}{4}\right)$$
 d) $2\frac{1}{3} - \left(-2\frac{1}{4}\right)$

 \leftarrow Write as improper fractions \rightarrow

 \leftarrow Find a common denominator \rightarrow

 $\leftarrow \text{Solve} \rightarrow$

11. Multiply or divide.

a)
$$\frac{1}{2} \times \left(-\frac{1}{3}\right)$$
 b) $-\frac{5}{6} \div \frac{7}{8}$

c)
$$-1\frac{2}{5} \div -\frac{1}{10}$$
 d) $2\frac{3}{4} \times \left(-4\frac{2}{3}\right)$

Name:



Sentence:

2.4 Determining Square Roots of Rational Numbers, pages 89–99

- 13. Circle each rational number that is a perfect square. Show your work.
 - **a)** $\frac{3}{4}$ **b)** $\frac{16}{4}$
 - **c)** 0.49 **d)** 22

14. Estimate $\sqrt{220}$ to 1 decimal place. Check your answer with a calculator. Show your work.

Estimate:

Calculate:

220 is between perfect squares

_____ and _____.

15. A 1-L can of paint covers 11 m². How many cans of paint would you need to paint a ceiling that is 5.2 m by 5.2 m? Show your work.

Area of the ceiling = $5.2 \times$ _____

Sentence: