Name: $\qquad$
$\qquad$

## Chapter 2 Review

For \#1 to \#3, use the clues to unscramble the letters.

1. STISPOPOE
+7 and -7 are $\qquad$
2. SEUAQR OOTR
asks the question, "one of 2 equal factors equals this..." (2 words)
$\qquad$
$\qquad$
3. CREFPET QUESAR
the product of 2 equal rational factors; example: $7 \times 7$ ( 2 words)
$\qquad$
4. TALINARO BRUNME the quotient of 2 integers, where the divisor is not zero; example: $\frac{5}{6}$
$\qquad$
2.1 Comparing and Ordering Rational Numbers, pages 56-63
5. Write $>,<$, or $=$ to make each statement true.
$>$ means greater than.
< means less than.
a) $\frac{1}{2} \square \frac{3}{6}$


b) $-0.86 \square-0.84$
b) $-0.86 \square-0.84$

c) $-\frac{3}{4}$ $\square$

d) $\frac{3}{4} \square \frac{3}{8}$

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2.2 Problem Solving With Rational Numbers in Decimal Form, pages 65-73
6. Calculate.
a) $-5.68+4.73$
b) $-0.85-(-2.34)$
c) $1.8(-4.5)$
d) $-3.77 \div(-2.9)$
7. Evaluate. Round your answer to the nearest tenth, if necessary.

a) $5.3 \div 2[7.8+(-8.3)]$
b) $4.2-5.6 \div(-2.8)$
$=5.3 \div 2(\square)$ Brackets first.
$\qquad$ $\times($ $\qquad$
$=$ $\qquad$
8. One evening in Dauphin, Manitoba, the temperature decreased from $2.4^{\circ} \mathrm{C}$ to $-3.2^{\circ} \mathrm{C}$. How much did the temperature change?
-3.2 - $\qquad$

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

The company lost $\qquad$ in 4 years.

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### 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

$$
\leftarrow \text { Solve } \rightarrow
$$

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) $2 \frac{3}{4} \times\left(-4 \frac{2}{3}\right)$

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12. How many hours are there in $2 \frac{1}{2}$ weeks?


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
$\qquad$ and $\qquad$
15. A 1-L can of paint covers $11 \mathrm{~m}^{2}$. 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 $=5.2 \times$ $\qquad$

Sentence: $\qquad$

