Class / Homework

Practice Problems

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Fraction Rap

3ace
4bdf
8
9 a, c, e
11
12
15
17 a, b, c, d
18 a

Write out the questions and then show all work to get to the answer.

3. Predict the sign of each quotient, then calculate the quotient.

a) $(-1.5) \div 3$

c) $(-8.4) \div (-4)$

e) $(-14.4) \div (-6)$

4. Predict the sign of each quotient, then calculate the quotient.

b) $\left(-\frac{2}{5}\right) \div \frac{3}{10}$

d) $\frac{1}{4} \div \frac{11}{3}$

f) $\left(-\frac{9}{5}\right) \div \left(-\frac{11}{4}\right)$

8. On a winter's day, the temperature at 6 P.M. was 0°C. Suppose the temperature decreased by 2.5°C each hour until it was −12.5°C. How long did it take to reach this temperature? How do you know?

9. Use a calculator to determine each quotient.

a) $20.736 \div (-1.8)$

c) $(-84.41) \div (-2.3)$

f) $(-0.1081) \div 0.45$

11. To pay for a skiing holiday in Whistler, Paige borrowed $1450.50 from her parents. She pays back $30.75 each week.

a) How many weeks will it be until Paige is no longer in debt? Justify your answer.

b) How did you use rational numbers to calculate the answer in part a?

12. Determine each quotient.

a) $\frac{5}{4} \div \left(-\frac{7}{6}\right)$

b) $\frac{3}{10} \div \frac{12}{5}$

c) $\left(-\frac{3}{4}\right) \div \left(-1\frac{1}{8}\right)$

d) $\left(-4\frac{3}{5}\right) \div \frac{3}{4}$

e) $3\frac{2}{3} \div \left(-2\frac{1}{4}\right)$

f) $3\frac{4}{9} \div 6\frac{1}{3}$

15. A person has 54 shares in WestJet Airlines.
On February 6, 2008, these shares lost
$17.28 in value.
What was the change in value of 1 share?
How do you know?

17. Determine the missing number in each division statement.

a) $\square \div 1.25 = -3.6$

b) $\square \div \left(-\frac{3}{4}\right) = \frac{7}{8}$

c) $(-0.5875) \div \square = -0.25$

d) $\frac{68}{15} \div \square = -\frac{4}{5}$

18. Replace each $\square$ with a rational number to make each equation true. Explain the strategy you used.

a) $(-0.3) \times \square = 0.78$