

Name: _____
Mr. Williams

Date: _____
Class: _____

Topic: Multiplying Rational
Homework

Tell whether the expression is *positive* or *negative* without evaluating.

1. $\frac{-7.5}{4.25}$

2. $\frac{4}{9} \times \left(-\frac{6}{7}\right)$

3. $-\frac{1}{5} \div \left(-\frac{2}{3}\right)$

4. $-3.2 \times (-1.7)$

Divide. Write fractions in simplest form.

5. $-\frac{2}{7} \div \frac{10}{7}$

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

7. $\frac{2}{3} \div (-14)$

8. $-1\frac{1}{6} \div \frac{5}{3}$

9. $-0.72 \div (-0.9)$

10. $5.4 \div (-3.6)$

Multiply. Write fractions in simplest form.

11. $\frac{2}{5} \times \left(-\frac{10}{7}\right)$

12. $-\frac{3}{4} \cdot \left(-\frac{10}{9}\right)$

13. $\frac{3}{2} \left(-2\frac{2}{9}\right)$

14. $\left(-1\frac{3}{8}\right)^2$

15. -3.7×2.1

16. $-5.7 \cdot (-2.06)$

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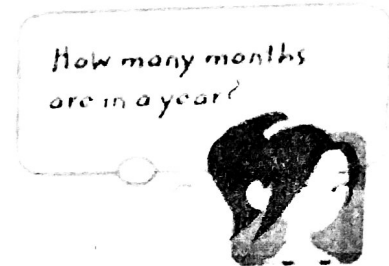
Are you ready for a challenge?

Solve the problems.

- 1 Imamu pays \$30 each month for his gym membership. What is the change in the amount of money in his account after $\frac{2}{3}$ of a year?

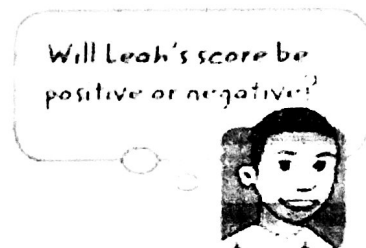
- A \$120 C \$270
B \$240 D \$360

Bob chose **A** as the correct answer. How did he get that answer?

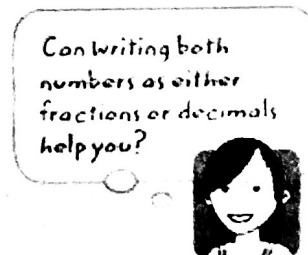


- 2 Trevon, Leah, and Beth are playing a computer game. Trevon scored -8 . Beth's score was $\frac{3}{4}$ of Trevon's score, and Leah's score was $\frac{1}{4}$ of Beth's score. What was Leah's score?

- A $\frac{2}{3}$ C $\frac{2}{3}$
B $-\frac{3}{2}$ D $\frac{3}{2}$



- 3 Paula cut ribbon from a spool for a craft project. Each piece of ribbon changed the length of the ribbon remaining on the spool by 1.2 feet. When Paula finished, the length of ribbon on the spool had changed by $9\frac{3}{5}$ feet. How many pieces of ribbon did Paula cut?
Show your work.



Solution: _____

4 Evaluate the products.

a. $4 \times \left(-\frac{3}{8}\right)$ _____

b. $(-4) \times \left(-\frac{3}{8}\right)$ _____

5 How can you use the rules for multiplying positive and negative numbers to check that your answers to problem 4 have the correct sign?

6 A deep sea diver changes his position relative to the surface of the water by $-\frac{7}{2}$ meters per minute. Write and evaluate an expression to show his position after 3 minutes if he starts at the surface of the water.

7 Evaluate the products. Write your answers in simplest form.

a. $-\frac{4}{5} \times \left(-\frac{5}{8}\right)$ _____

b. $\left(-\frac{3}{10}\right) \times \left(\frac{2}{7}\right)$ _____

8. The amount of shore at a local beach changes an average of $\frac{3}{4}$ foot each year. What is the change in the amount of shore after 7 years?

A $5\frac{1}{4}$ feet

B $\frac{3}{28}$ foot

C $\frac{3}{28}$ foot

D $5\frac{1}{4}$ feet

Rashad chose C as the correct answer. How did he get that answer?

9. The temperature at noon is 0°C . The temperature changes by $-\frac{3}{2}^{\circ}\text{C}$ every hour for 4 hours. Write an expression to represent this situation. What is the temperature at 4:00 PM?

Multiply and Divide Decimals

Skills Practice

1. $-7.89 \cdot 0.1$	2. $-2.8 \cdot (-6.2)$
3. $19.62 \cdot 5.07$	4. $-4.365 \div (-4.5)$
5. $-13 \div 0.65$	6. $32.8 \div 4.1 \cdot (-2)$

Problem Solving

7. You have \$75 to spend on daffodil bulbs. Boxes of bulbs cost \$19.95 per box including tax. How many boxes can you buy?	8. Brenda wants to make 160 photocopies that each cost \$0.045. What is her total before tax?
9. Gas costs \$2.88 per gallon. Albert filled up his car for \$43.20. How many gallons of gas did he get?	10. It takes 1.8 yards of fabric to cover one bulletin board. Ms. Loom wants to cover 9 bulletin boards and use an additional 2.7 yards of fabric to cover an old chair. How much fabric will Ms. Loom need altogether?