

Grade 7 - Multiplying and Dividing Rational Numbers - Worksheet

Common Core 7.NS.A.2 · maths-pdf.fr/en/

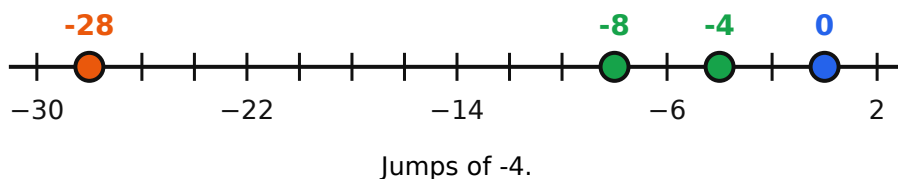
Name: _____ Class: _____ Date: ____/____/____

These 20 problems practice multiplying and dividing integers, fractions, and decimals, sign rules, and converting fractions to terminating or repeating decimals (Common Core 7.NS.A.2). They start with the basic skill, move to different kinds of numbers and multistep work, and end with six word problems set in everyday situations such as shopping, sports, and travel.

Show every step of your work, and use the answer key only after you have tried each problem.

Grade 7 · Common Core State Standards: **7.NS.A.2**

Exercise 1 - Positive times negative



Multiply: -4×7 .

Exercise 2 - Two negatives

Multiply: $-6 \times (-5)$.

Exercise 3 - Divide negative by positive

Divide: $-48 \div 6$.

Exercise 4 - Divide two negatives

Divide: $-54 \div (-9)$.

Exercise 5 - Decimal product

Multiply: -2.5×4 .

Exercise 6 - Product of decimals

Multiply: $-0.6 \times (-0.3)$.

Exercise 7 - Divide decimals

Divide: $3.6 \div (-0.9)$.

Exercise 8 - Multiply fractions

Multiply: $-\frac{2}{3} \times \frac{3}{4}$. Write the answer in simplest form.

Exercise 9 - Negative fractions

Multiply: $-\frac{5}{6} \times (-\frac{9}{10})$. Write the answer in simplest form.

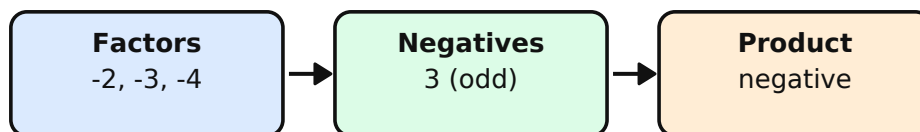
Exercise 10 - Divide fractions

Divide: $-\frac{3}{4} \div \frac{1}{2}$. Write the answer in simplest form.

Exercise 11 - Divide by a negative fraction

Divide: $-\frac{2}{5} \div (-\frac{4}{15})$. Write the answer in simplest form.

Exercise 12 - Three factors



Count the negative factors.

Find $(-2)(-3)(-4)$. Tell how many negative factors there are and what that means for the sign.

Exercise 13 - Fraction to decimal

Write $\frac{7}{8}$ as a decimal and tell whether it terminates or repeats.

Exercise 14 - Repeating decimal

Step	Work
50 / 11	4 r 6
60 / 11	5 r 5
50 / 11	4 r 6 (repeats)

Long division of 5 by 11.

Write $\frac{5}{11}$ as a decimal using a bar to show the repeating digits.

Exercise 15 - Mixed number product

Find $-3\frac{1}{3} \times 1.5$.

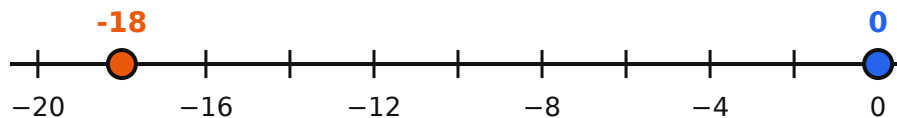
Exercise 16 - Falling temperature

Hour	Change
1	-3.5
2	-3.5
3	-3.5

Temperature change per hour.

The temperature drops 3.5°F each hour for 6 hours. Find the total change in temperature.

Exercise 17 - Submarine descent



Elevation of the submarine.

A submarine sinks 2.4 feet per minute. Write its change in elevation after 7.5 minutes as a signed number.

Exercise 18 - Weekly withdrawals

Liam takes \$12.75 from his savings every week for 8 weeks. Write the total change as a signed number.

Exercise 19 - Share the debt

Total owed	Friends	Each
-\$96	4	?

The shared debt.

Four friends owe a total of \$96 for a pizza party, written as -96 . Each owes the same amount. Find each friend's share as a signed number.

Exercise 20 - Average change

A stock changes by -1.5 , 2.25 , -3.75 , and 0.5 dollars over four days. Find the mean daily change.

Exercise 21 - Hiking down

A balloon sinks $\frac{3}{4}$ foot each second for $2\frac{1}{2}$ seconds. Find the change in height as a signed number.