



Practice Worksheet on Division of Rational Numbers

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Subject: Mathematics

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Long Answer Questions

1. Explain the process of dividing two rational numbers in fraction form.
2. How do you divide two rational numbers given in decimal form?
3. What is the result of dividing $-4/9$ by $2/3$?
4. What is the result of dividing 0.6 by 0.8?
5. What is the result when $7/9$ is divided by $1/3$?
6. Divide $-3/7$ by $4/5$ and express the result in simplest form.
7. What is the result of dividing 0.3 by 0.6?

8. Divide 0.4 by 1.4. Express your answer as a fraction in simplest form.

Multiple Choice Questions

1. What is the result of dividing $\frac{1}{3}$ by 2?

- a) $-\frac{1}{6}$
- b) $\frac{1}{6}$
- c) -6
- d) 6

2. Divide $-\frac{1}{5}$ by $\frac{1}{2}$.

- a) $\frac{2}{5}$
- b) $-\frac{2}{5}$
- c) $\frac{5}{2}$
- d) $-\frac{5}{2}$

3. What is 0.5 divided by 1?

- a) 2
- b) $\frac{1}{2}$
- c) $-\frac{1}{2}$
- d) -2

4. What is the result of $(-\frac{1}{2}) \div 2$?

- a) -4
- b) $\frac{1}{4}$
- c) $-\frac{1}{4}$
- d) 4

5. Find the quotient: $(-\frac{1}{5}) \div (\frac{1}{7})$.

- a) $5/7$
- b) $7/5$
- c) $-7/5$
- d) $-5/7$

6. Calculate: $(3/4) / (1/2)$.

- a) $2/3$
- b) $3/2$
- c) $-2/3$
- d) $-3/2$

7. What is 0.5 divided by 2?

- a) 1.25
- b) 0.25
- c) -0.25
- d) -1.25

8. Calculate the result of dividing 0.75 by 1.

- a) 1.5
- b) 0.75
- c) -0.75
- d) -1.5

Answer Key

Long Answer Questions - Expected Responses

1. Explain the process of dividing two rational numbers in fraction form.

Expected Answer: Divide the numerators and then the denominators. Simplify the fraction if possible.

2. How do you divide two rational numbers given in decimal form?

Expected Answer: Convert them into fractions, then follow the division of fraction rule.

3. What is the result of dividing $-4/9$ by $2/3$?

Expected Answer: The answer is $-2/3$. We divide the numbers directly and get the answer.

4. What is the result of dividing 0.6 by 0.8?

Expected Answer: 0.75 or $3/4$. First convert 0.6 into $6/10$ which is $3/5$, and then divide.

5. What is the result when $7/9$ is divided by $1/3$?

Expected Answer: $2\frac{1}{3}$. First convert the mixed fraction into improper and then divide.

6. Divide $-3/7$ by $4/5$ and express the result in simplest form.

Expected Answer: The result is $-15/28$. Multiply the first fraction by the reciprocal of the second fraction.

7. What is the result of dividing 0.3 by 0.6?

Expected Answer: $1/2$ or 0.5. Convert both decimals to fractions and then divide.

8. Divide 0.4 by 1.4. Express your answer as a fraction in simplest form.

Expected Answer: $2/7$. First convert the decimal to a fraction and then perform the division. The final answer is in the simplest form.

Multiple Choice Questions – Correct Answers

1. What is the result of dividing $1/3$ by 2?

Correct Answer: $1/6$

2. Divide $-1/5$ by $1/2$.

Correct Answer: $-2/5$

3. What is 0.5 divided by 1?

Correct Answer: $1/2$

4. What is the result of $(-1/2) / 2$?

Correct Answer: $-1/4$

5. Find the quotient: $(-1/5) / (1/7)$.

Correct Answer: $-7/5$

6. Calculate: $(3/4) / (1/2)$.

Correct Answer: $3/2$

7. What is 0.5 divided by 2?

Correct Answer: 0.25

8. Calculate the result of dividing 0.75 by 1.

Correct Answer: 0.75