



Grade 7

Topic: Multiplying and Dividing Rational Numbers

Instructions

Solve the following problems. Show all work clearly and check your solutions.

Practice Problems

1. Multiply the following rational numbers.

(i) $\frac{3}{4} \times \frac{5}{6}$

(iv) $\frac{6}{7} \times (-\frac{2}{5})$

(ii) $-\frac{7}{8} \times \frac{2}{3}$

(v) $-\frac{9}{10} \times \frac{1}{2}$

(iii) $\frac{-5}{9} \times \frac{-3}{4}$

(vi) $\frac{-2}{3} \times (-\frac{4}{5})$

2. Divide the following rational numbers.

(i) $\frac{3}{4} \div \frac{2}{5}$

(iv) $\frac{9}{10} \div \frac{-3}{5}$

(ii) $-\frac{7}{8} \div \frac{1}{4}$

(v) $-\frac{8}{9} \div \frac{4}{7}$

(iii) $\frac{-5}{6} \div (-\frac{2}{3})$

(vi) $\frac{-3}{5} \div (-\frac{6}{11})$

3. Word Problems.

- (i) A recipe calls for $\frac{3}{4}$ cup of sugar. You are making $\frac{2}{3}$ of the recipe. How much sugar do you need?
- (ii) A rope is $\frac{5}{6}$ meters long. You cut it into pieces each $\frac{1}{4}$ meter long. How many pieces do you get?
- (iii) A car travels $\frac{7}{8}$ of a kilometer per minute. How far will it travel in $\frac{3}{4}$ minutes?

4. Mixed Review.

(i) $-2 \times (-5)$

(ii) $3.5 \div (-0.7)$

(iii) -6×1.2

(iv) $-7 \div (-0.5)$

Multiple-Choice Questions

1. $\frac{5}{6} \times \frac{2}{3} =$

A. $\frac{10}{18}$

B. $\frac{5}{9}$

C. $\frac{10}{9}$

D. $\frac{7}{9}$

2. $-2 \div 4 =$

A. 2

B. -2

C. -0.5

D. 0.5

3. Which is the correct result? $-4 \times (-\frac{1}{2})$

A. -2

B. 2

C. 4

D. -4

4. $\frac{-9}{10} \div \frac{3}{5} =$

A. $\frac{-3}{2}$

B. $\frac{-15}{10}$

C. $\frac{-6}{5}$

D. $\frac{-9}{50}$

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