

Dividing Fractions Assignment

Part A: Multiple Choice and Numerical Response

1. Evaluate $\frac{2}{3} \div 4$

- a. $\frac{1}{6}$
- b. $2\frac{2}{3}$
- c. $\frac{2}{3}$
- d. 6

Numerical Response 1

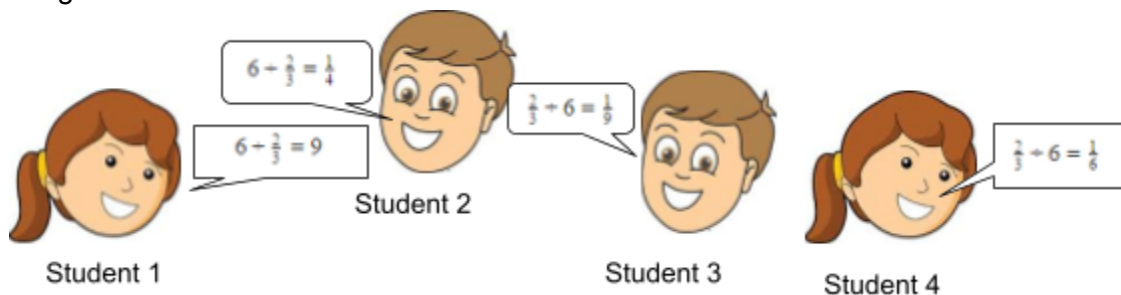
Write the reciprocal of $\frac{1}{8}$

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Use the following information to answer question 2.

Four students were given the following word problem:

Two-thirds of a bag of candies is shared among 6 people. What fraction of a bag does each person get?



2. Which student correctly solved the word problem?

- a. Student 1
- b. Student 2
- c. Student 3

- d. Student 4
3. Divide $\frac{2}{3}$ by its reciprocal
- a. $\frac{4}{9}$
- b. $1\frac{1}{2}$
- c. $2\frac{1}{4}$
- d. 1

Numerical Response 2

Write $\frac{42}{6}$ as a mixed number

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Use the following information to answer question 4.

A student was asked to solve, $2\frac{3}{4} \div \frac{5}{7}$. The student's work is shown below.

Equation $2\frac{3}{4} \div \frac{5}{7}$

Step 1 $\frac{11}{4} \div \frac{5}{7}$

Step 2 $\frac{4}{11} \times \frac{7}{5}$

Step 3 $\frac{28}{55}$

Step 4 $1\frac{27}{55}$

4. Where did the student make the first mistake?
- a. Step 1
- b. Step 2
- c. Step 3
- d. Step 4

Numerical Response 3

Write $4\frac{5}{9}$ as an improper fraction. What is the **numerator**?

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Part B: Short Answer

Show all of your work, write your final answers as proper fractions in lowest terms.

1. Divide using any method. Circle your final answer.

[1 mark each = 6 marks]

a. $3 \div \frac{1}{4}$

b. $\frac{3}{5} \div 4$

c. $\frac{2}{3} \div \frac{4}{9}$

d. $5\frac{1}{6} \div \frac{2}{9}$

e. $2\frac{3}{4} \div 5$

f. $9\frac{2}{3} \div 2\frac{5}{7}$

2. How many pieces of ribbon, each $\frac{1}{6}$ m long, can be cut from a ribbon $\frac{7}{8}$ m long?

Write your final answer in a sentence.

[2 marks]

3. Paula ran $3\frac{1}{3}$ laps in $13\frac{1}{3}$ min. If she ran at a steady pace, how long did it take her to run one lap? Write your final answer in a sentence.
[2 marks]
4. You have 6 L of pop. You are going to give each person at your party $\frac{2}{5}$ L. How many people will be served pop?
Write your final answer in a sentence.
[2 marks]
5. Fiona has $2\frac{4}{7}$ kg of rice that she wants to share equally among 6 people. How much rice does each person get?
Write your final answer in a sentence.
[2 marks]

Bonus:

Solve $0.3 \div \frac{2}{5}$

Write your final answer as both fraction and as a decimal.