

Multiplying and Dividing Fractions: math test, Grade 5 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Fractions as division

/ 3 pts

Write each quotient as a fraction, then as a mixed number if it is greater than 1.

a. $7 \div 3$

b. $11 \div 4$

c. $2 \div 9$

2 Multiplying

/ 4 pts

Compute and simplify.

a. $6 \times \frac{3}{4}$

b. $\frac{5}{6} \times \frac{9}{10}$

c. $\frac{4}{9} \times \frac{3}{8}$

d. $2\frac{1}{3} \times 1\frac{1}{2}$

3 Scaling

/ 3 pts

Do not finish the multiplication for (a) and (b).

- a. Is $\frac{5}{8} \times \frac{9}{7}$ greater or less than $\frac{5}{8}$? Explain.
- b. Is $\frac{5}{8} \times \frac{3}{7}$ greater or less than $\frac{5}{8}$? Explain.
- c. Compute $\frac{5}{8} \times \frac{9}{7}$.

4 Dividing with unit fractions

/ 3 pts

Divide.

- a. $\frac{1}{5} \div 4$
- b. $7 \div \frac{1}{3}$
- c. $\frac{1}{9} \div 3$

5 Flower bed

/ 4 pts

A flower bed is $2\frac{1}{2}$ yards long and $\frac{3}{4}$ yard wide.

- a. Find its area.
- b. Carrots grow on $\frac{2}{5}$ of the bed. What area do carrots cover?

6 Bag of rice

/ 3 pts

A bag holds 8 pounds of rice. It is split into portions of $\frac{1}{4}$ pound. Then $\frac{3}{8}$ of the portions are given to neighbors.

- a. How many portions are made?
- b. How many portions go to the neighbors?



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