

Dividing Fractions: math test, Grade 6 – download the PDF

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

1 Computations

/ 4 pts

Compute and simplify.

a. $6 \div \frac{1}{3}$

b. $\frac{4}{5} \div 2$

c. $\frac{5}{8} \div \frac{5}{12}$

d. $2\frac{1}{3} \div \frac{7}{6}$

2 Reciprocals

/ 3 pts

a. Give the reciprocal of $\frac{9}{4}$.

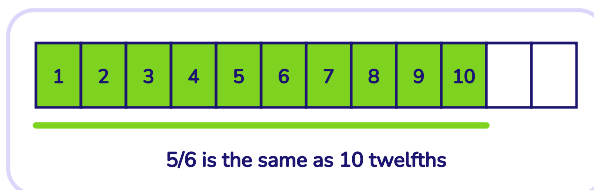
b. Give the reciprocal of 6.

c. True or false: $\frac{3}{5} \div 4 = \frac{12}{5}$. Justify and correct if needed.

3 Bar model

/ 3 pts

The bar is cut into twelfths and 10 twelfths are colored, which is $\frac{5}{6}$.



- Write the division that asks how many $\frac{1}{12}$ fit in $\frac{5}{6}$.
- Give the quotient.
- Check your answer by multiplication.

4 Soup for the class

/ 4 pts

- A cook has $3\frac{1}{2}$ liters of soup. Each bowl holds $\frac{1}{4}$ liter. How many bowls can she fill?
- Then $\frac{3}{4}$ liter of soup is shared equally among 3 students. How much does each student get?

5 Interpreting quotients

/ 3 pts

- Is $7 \div \frac{2}{5}$ greater or less than 7? Explain.
- Is $\frac{3}{4} \div \frac{9}{8}$ greater or less than $\frac{3}{4}$? Explain.
- Compute the quotient in part b.

6 Slow snail

/ 3 pts

A snail crawls $\frac{3}{10}$ meter in $\frac{1}{4}$ hour.

- Find its speed in meters per hour.
- How many hours would it need to crawl 3 meters at that speed?



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