

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Computations

/ 4 pts

- a. $6 \times 3 = 18$ (1 pt)
- b. $\frac{4}{5} \times \frac{1}{2} = \frac{2}{5}$ (1 pt)
- c. $\frac{5}{8} \times \frac{12}{5} = \frac{12}{8} = \frac{3}{2}$ (1 pt)
- d. $\frac{7}{3} \times \frac{6}{7} = 2$ (1 pt)

2 Reciprocals

/ 3 pts

- a. $\frac{4}{9}$ (1 pt)
- b. $\frac{1}{6}$ (1 pt)
- c. False: dividing by 4 means multiplying by $\frac{1}{4}$, so $\frac{3}{5} \div 4 = \frac{3}{20}$. (1 pt)

3 Bar model

/ 3 pts

a. $\frac{5}{6} \div \frac{1}{12}$ (1 pt)

b. $\frac{5}{6} \times 12 = 10$ (1 pt)

c. $10 \times \frac{1}{12} = \frac{10}{12} = \frac{5}{6}$ (1 pt)

4 Soup for the class

/ 4 pts

a. $\frac{7}{2} \div \frac{1}{4} = \frac{7}{2} \times 4 = 14$ (1 pt). She can fill 14 bowls (1 pt).

b. $\frac{3}{4} \div 3 = \frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$ (1 pt). Each student gets $\frac{1}{4}$ liter (1 pt).

5 Interpreting quotients

/ 3 pts

a. Greater, because the divisor $\frac{2}{5}$ is less than 1. (1 pt)

b. Less, because the divisor $\frac{9}{8}$ is greater than 1. (1 pt)

c. $\frac{3}{4} \times \frac{8}{9} = \frac{24}{36} = \frac{2}{3}$ (1 pt)

6 Slow snail

/ 3 pts

a. $\frac{3}{10} \div \frac{1}{4} = \frac{3}{10} \times 4 = \frac{12}{10} = \frac{6}{5}$ (1 pt). Speed: $\frac{6}{5}$ m/h, that is 1.2 m/h (1 pt).

b. $3 \div \frac{6}{5} = 3 \times \frac{5}{6} = \frac{15}{6} = \frac{5}{2}$, so 2.5 hours (1 pt).



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