

Multiplying and Dividing Fractions: math test solutions, Grade 5 – 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 Fractions as division

/ 3 pts

a. $7 \div 3 = \frac{7}{3} = 2\frac{1}{3}$ (1 pt)

b. $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$ (1 pt)

c. $2 \div 9 = \frac{2}{9}$ (1 pt)

2 Multiplying

/ 4 pts

a. $\frac{18}{4} = \frac{9}{2} = 4\frac{1}{2}$ (1 pt)

b. $\frac{45}{60} = \frac{3}{4}$ (1 pt)

c. $\frac{12}{72} = \frac{1}{6}$ (1 pt)

d. $\frac{7}{3} \times \frac{3}{2} = \frac{21}{6} = \frac{7}{2} = 3\frac{1}{2}$ (1 pt)

3 Scaling

/ 3 pts

- a. Greater, because $\frac{9}{7} > 1$. (1 pt)
- b. Less, because $\frac{3}{7} < 1$. (1 pt)
- c. $\frac{45}{56}$, and $\frac{45}{56} > \frac{35}{56} = \frac{5}{8}$. (1 pt)

4 Dividing with unit fractions

/ 3 pts

- a. $\frac{1}{20}$ (1 pt)
- b. $7 \times 3 = 21$ (1 pt)
- c. $\frac{1}{27}$ (1 pt)

5 Flower bed

/ 4 pts

- a. $\frac{5}{2} \times \frac{3}{4} = \frac{15}{8} = 1\frac{7}{8}$ square yards. (2 pts)
- b. $\frac{2}{5} \times \frac{15}{8} = \frac{30}{40} = \frac{3}{4}$ square yard. (2 pts)

6 Bag of rice

/ 3 pts

- a. $8 \div \frac{1}{4} = 8 \times 4 = 32$ portions. (1 pt)
- b. $\frac{3}{8} \times 32 = \frac{96}{8} = 12$ portions. (2 pts)



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