

Introduction to Fractions: math test solutions, Grade 3 – 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 Name the fractions

/ 4 pts

- a. $\frac{5}{8}$ of the bar is colored. (1 pt)
- b. $8 - 5 = 3$, so $\frac{3}{8}$ is not colored. (1 pt)
- c. One part is $\frac{1}{8}$. (1 pt)
- d. 8 parts make one whole, because $\frac{8}{8} = 1$. (1 pt)

2 Number line

/ 3 pts

- a. M is 3 jumps of $\frac{1}{4}$ from 0, so M is at $\frac{3}{4}$. (1 pt)
- b. N is 5 jumps from 0, so N is at $\frac{5}{4}$. (1 pt)
- c. N is greater. It is farther from 0 on the number line, and $\frac{5}{4} > \frac{3}{4}$ since $5 > 3$. (1 pt)

3 Equivalent fractions

/ 3 pts

- a. Cut each third into 2 parts: $\frac{1}{3} = \frac{2}{6}$. (1 pt)
- b. Cut each fourth into 2 parts: $\frac{3}{4} = \frac{6}{8}$. (1 pt)
- c. 2 wholes hold $2 \times 4 = 8$ fourths, so $2 = \frac{8}{4}$. (1 pt)

4 Comparing fractions

/ 4 pts

- a. Same denominator and $3 < 5$, so $\frac{3}{6} < \frac{5}{6}$. (1 pt)
- b. $\frac{4}{4} = 1$ and $\frac{4}{8}$ is less than 1. Same numerator, smaller denominator: $\frac{4}{4} > \frac{4}{8}$. (1 pt)
- c. Same numerator and $3 < 4$, so $\frac{2}{3} > \frac{2}{4}$. (1 pt)
- d. All numerators are 5. The greater the denominator, the smaller the fraction, so $\frac{5}{8} < \frac{5}{6} < \frac{5}{4} < \frac{5}{3}$. (1 pt)

5 Stickers

/ 3 pts

- a. $18 \div 6 = 3$, so there are 3 gold stickers. (1 pt)
- b. $5 \times 3 = 15$, so there are 15 silver stickers. (1 pt)
- c. $18 \div 3 = 6$, so 6 stickers have animals. (1 pt)

6 The long ribbon

/ 3 pts

- a. One piece is $\frac{1}{8}$ of the ribbon. $32 \div 8 = 4$, so it is 4 inches long. (1 pt)
- b. Three pieces are $\frac{3}{8}$ of the ribbon. (1 pt)
- c. $3 \times 4 = 12$, so she uses 12 inches of ribbon. (1 pt)



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