

Equivalent Fractions and Comparing: math test solutions, Grade 4 – 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 and simplify

/ 3 pts

- a. The bar has 12 equal parts, so one part is $\frac{1}{12}$. (1 pt)
- b. 9 parts are shaded: $\frac{9}{12}$. (1 pt)
- c. Divide by 3: $\frac{9}{12} = \frac{3}{4}$. (1 pt)

2 Equivalent fractions

/ 4 pts

- a. $5 \times 2 = 10$, so the numerator is $3 \times 2 = 6$. (1 pt)
- b. $6 \times 2 = 12$, so the numerator is $5 \times 2 = 10$. (1 pt)
- c. $8 \div 4 = 2$, so the denominator is $12 \div 4 = 3$. (1 pt)
- d. $30 \div 10 = 3$, so the denominator is $100 \div 10 = 10$. (1 pt)

3 Simplest form

/ 3 pts

- a. Divide by 2: $\frac{3}{5}$. (1 pt)
- b. Divide by 3: $\frac{3}{4}$. (1 pt)
- c. Divide by 20: $\frac{2}{5}$. (1 pt)

4 Compare

/ 4 pts

- a. $\frac{2}{3} = \frac{4}{6}$ and $5 > 4$, so $\frac{5}{6} > \frac{2}{3}$. (1 pt)
- b. $\frac{1}{2} = \frac{4}{8}$ and $3 < 4$, so $\frac{3}{8} < \frac{1}{2}$. (1 pt)
- c. $\frac{3}{4} = \frac{9}{12}$ and $7 < 9$, so $\frac{7}{12} < \frac{3}{4}$. (1 pt)
- d. $\frac{4}{10} = \frac{2}{5}$, so $\frac{4}{10} = \frac{2}{5}$. (1 pt)

5 Number line

/ 3 pts

- a. P is $\frac{1}{6}$, Q is $\frac{3}{6}$, R is $\frac{5}{6}$. (1.5 pts)
- b. $\frac{3}{6} = \frac{1}{2}$. (0.5 pt)
- c. $\frac{5}{6} = \frac{10}{12}$ and $\frac{3}{4} = \frac{9}{12}$. Since $10 > 9$, R is greater than $\frac{3}{4}$. (1 pt)

6 Word problem: bookmarks

/ 3 pts

- a. A common denominator is 12: blue = $\frac{9}{12}$, red = $\frac{8}{12}$, green = $\frac{10}{12}$. (1 pt)
- b. Since $8 < 9 < 10$: red, then blue, then green. That is $\frac{2}{3} < \frac{3}{4} < \frac{5}{6}$. (1 pt)
- c. The green strip is the longest, at $\frac{5}{6}$ foot. (1 pt)



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