Marking guide | Fractions

Year 4 Fractions topic test

12 questions | 21 marks | 30 minutes

A hand-written review that begins with familiar representations and builds to explanation and practical problems.

Equivalent correct methods earn the corresponding marks.

1. What fraction of the strip is shaded? [1 mark]

One whole 

Three of five equal parts are shaded.

Answer: $\frac{3}{5}$

2. Write $\frac{2}{4}$ using halves. [1 mark]

Divide numerator and denominator by two.

Answer: $\frac{1}{2}$

3. Fill the missing number: $\frac{2}{3} = \frac{\square}{12}$. [1 mark]

Multiply numerator and denominator by four.

Answer: 8

4. Complete: $\frac{4}{5}, \frac{5}{5}, \square, \frac{7}{5}$. [1 mark]

Keep fifth-sized pieces and increase the numerator by one.

Answer: $\frac{6}{5}$

5. How many wholes are $\frac{8}{4}$? [1 mark]

Eight quarters form two groups of four.

Answer: 2

6. Write $\frac{7}{3}$ as a mixed number. [2 marks]

Six thirds form two wholes; one third remains.

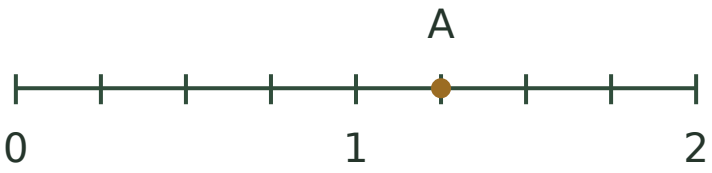
Answer: $2\frac{1}{3}$

7. Write $2\frac{1}{2}$ as one fraction. [2 marks]

Two wholes are four halves; add one half.

Answer: $\frac{5}{2}$

8. Read A as a fraction. [2 marks]



There are four equal intervals per unit; A is the fifth tick after zero.

Answer: $\frac{5}{4}$

9. Order $1\frac{1}{4}, \frac{3}{4}, \frac{3}{2}$ from smallest to largest. [2 marks]

In quarters the amounts are 3, 5 and 6 quarters.

Answer: $\frac{3}{4}, 1\frac{1}{4}, \frac{3}{2}$

10. Noah says $\frac{4}{6}$ is more than $\frac{2}{3}$ because 4 is more than 2. Is he right? Explain. [2 marks]

Each third splits into two sixths, so $\frac{2}{3} = \frac{4}{6}$.

Answer: No. The fractions are equal.

11. Three equal loaves are cut into quarters. Nine quarter-pieces are served. What fraction of one loaf remains? [3 marks]

Three loaves contain twelve quarters.

$12 - 9 = 3$ quarters remain.

Answer: $\frac{3}{4}$ of a loaf.

12. Write a fraction with denominator 4 that is greater than 1 but less than 2. Explain your choice. [3 marks]

One whole is four quarters and two wholes are eight quarters.

The numerator must be greater than 4 and less than 8.

Answer: Any of $\frac{5}{4}, \frac{6}{4}, \frac{7}{4}$.