

Equivalent Fractions

Fractions, Decimals & % · Grade 3

Score: _____ / 10

★ Hard · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. Find n : $n/12 = 5/6$

Answer: _____

2. Which fraction is closest to 1?

A) $7/8$ B) $4/5$ C) $9/11$

Answer: _____

3. Find a fraction between $\frac{1}{3}$ and $\frac{1}{2}$ with denominator 12.

Answer: _____

4. A class says $\frac{12}{18} \neq \frac{2}{3}$. Are they correct?

Answer: _____

5. Find the missing number: $\frac{5}{8} = \frac{35}{___}$

Answer: _____

6. Which bag has more rice: one that is $\frac{3}{4}$ full or one that is $\frac{5}{6}$ full?

Answer: _____

7. Find a fraction between $\frac{1}{4}$ and $\frac{1}{2}$ with denominator 8.

Answer: _____

8. Is $\frac{45}{60}$ equivalent to $\frac{3}{4}$?

Answer: _____

9. Write 3 fractions equivalent to $\frac{2}{5}$ using denominators 10, 15, 20.

Answer: _____

10. Maya says $\frac{4}{6} > \frac{3}{4}$. Is she correct? Explain.

Answer: _____

Answer Key

Equivalent Fractions — Hard

1. **n = 10**

$6 \times 2 = 12$, so $5 \times 2 = 10$.

2. **A) $\frac{7}{8}$ ($1 - \frac{7}{8} = 0.125$; $1 - \frac{4}{5} = 0.2$; $1 - \frac{9}{11} \approx 0.182$. Smallest gap: $\frac{7}{8}$.)**

Distance from 1: $\frac{7}{8} \rightarrow 1/8 \approx 0.125$; $\frac{4}{5} \rightarrow 0.2$; $\frac{9}{11} \rightarrow 2/11 \approx 0.182$. Closest is $\frac{7}{8}$.

3. **$\frac{5}{12}$**

$\frac{1}{3} = \frac{4}{12}$, $\frac{1}{2} = \frac{6}{12}$. The only option with denominator 12 between them is $\frac{5}{12}$.

4. **No. $\frac{12}{18} = \frac{2}{3}$ (divide by GCF 6).**

GCF=6. $12 \div 6 = 2$, $18 \div 6 = 3$. So $\frac{12}{18} = \frac{2}{3}$. They are wrong.

5. **56**

$5 \times 7 = 35$, so $8 \times 7 = 56$.

6. **$\frac{5}{6}$ full. LCD=12: $\frac{3}{4} = \frac{9}{12}$, $\frac{5}{6} = \frac{10}{12}$. $10 > 9$.**

Convert to 12ths: $\frac{3}{4} = \frac{9}{12}$, $\frac{5}{6} = \frac{10}{12}$. $\frac{10}{12} > \frac{9}{12}$.

7. **$\frac{3}{8}$**

$\frac{1}{4} = \frac{2}{8}$, $\frac{1}{2} = \frac{4}{8}$. Between them: $\frac{3}{8}$.

8. **Yes. GCF=15. $45 \div 15 = 3$, $60 \div 15 = 4$.**

Simplify $\frac{45}{60}$: GCF=15. $45 \div 15 = 3$, $60 \div 15 = 4 \rightarrow \frac{3}{4}$. Yes.

9. **$\frac{4}{10}$, $\frac{6}{15}$, $\frac{8}{20}$**

$\times 2$: $\frac{4}{10}$. $\times 3$: $\frac{6}{15}$. $\times 4$: $\frac{8}{20}$.

10. **No. $\frac{4}{6} = \frac{8}{12}$, $\frac{3}{4} = \frac{9}{12}$. Since $9 > 8$, $\frac{3}{4} > \frac{4}{6}$.**

LCD=12. $\frac{4}{6} = \frac{8}{12}$, $\frac{3}{4} = \frac{9}{12}$. $9 > 8$, so $\frac{3}{4} > \frac{4}{6}$. Maya is wrong.