

Equivalent Fractions: Practice

Name: _____

A. Fill in the missing number to make the fractions equivalent.

1. $\frac{1}{2} = \frac{\boxed{}}{10}$

2. $\frac{1}{3} = \frac{\boxed{}}{9}$

3. $\frac{3}{4} = \frac{\boxed{}}{12}$

4. $\frac{2}{5} = \frac{4}{\boxed{}}$

5. $\frac{5}{6} = \frac{\boxed{}}{12}$

6. $\frac{2}{3} = \frac{\boxed{}}{15}$

7. $\frac{4}{8} = \frac{\boxed{}}{2}$

8. $\frac{6}{10} = \frac{3}{\boxed{}}$

9. $\frac{9}{12} = \frac{\boxed{}}{4}$

10. $\frac{3}{8} = \frac{6}{\boxed{}}$

11. $\frac{10}{20} = \frac{\boxed{}}{2}$

12. $\frac{7}{10} = \frac{\boxed{}}{100}$

B. Write two fractions that are equivalent to each one.

13. $\frac{1}{4} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

14. $\frac{2}{3} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

15. $\frac{3}{5} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

16. $\frac{6}{12} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

C. Circle every fraction that is equivalent to the first one.

17. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{5}$ $\frac{5}{10}$ $\frac{4}{6}$ $\frac{6}{12}$ $\frac{3}{8}$ $\frac{7}{14}$ $\frac{50}{100}$

18. $\frac{2}{3}$ $\frac{4}{6}$ $\frac{3}{4}$ $\frac{6}{9}$ $\frac{5}{6}$ $\frac{8}{12}$ $\frac{12}{13}$ $\frac{10}{15}$ $\frac{20}{30}$

D. Sam says $\frac{2}{3} = \frac{3}{4}$ because he added 1 to the top and 1 to the bottom. Is Sam right? Explain how you know. You can draw bars to help.

Equivalent Fractions: Practice Answer Key

The work for each answer in part A is shown beside it.

A. Fill in the missing number to make the fractions equivalent.

1. $\frac{1}{2} = \frac{5}{10} \times 5$ 2. $\frac{1}{3} = \frac{3}{9} \times 3$ 3. $\frac{3}{4} = \frac{9}{12} \times 3$ 4. $\frac{2}{5} = \frac{4}{10} \times 2$
5. $\frac{5}{6} = \frac{10}{12} \times 2$ 6. $\frac{2}{3} = \frac{10}{15} \times 5$ 7. $\frac{4}{8} = \frac{1}{2} \div 4$ 8. $\frac{6}{10} = \frac{3}{5} \div 2$
9. $\frac{9}{12} = \frac{3}{4} \div 3$ 10. $\frac{3}{8} = \frac{6}{16} \times 2$ 11. $\frac{10}{20} = \frac{1}{2} \div 10$ 12. $\frac{7}{10} = \frac{70}{100} \times 10$

B. Write two fractions that are equivalent to each one. Answers will vary. These are examples.

13. $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$ 14. $\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$
15. $\frac{3}{5} = \frac{6}{10} = \frac{9}{15}$ 16. $\frac{6}{12} = \frac{1}{2} = \frac{3}{6}$

C. Circle every fraction that is equivalent to the first one.

17. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{5}$ $\frac{5}{10}$ $\frac{4}{6}$ $\frac{6}{12}$ $\frac{3}{8}$ $\frac{7}{14}$ $\frac{50}{100}$
18. $\frac{2}{3}$ $\frac{4}{6}$ $\frac{3}{4}$ $\frac{6}{9}$ $\frac{5}{6}$ $\frac{8}{12}$ $\frac{12}{13}$ $\frac{10}{15}$ $\frac{20}{30}$

D. Sam says $\frac{2}{3} = \frac{3}{4}$ because he added 1 to the top and 1 to the bottom. Is Sam right? Explain how you know. You can draw bars to help.

No. Adding changes the size of a fraction. Only multiplying or dividing the top and the bottom by the same number keeps it equal.

One way to check: $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$. Those are not the same amount, so $\frac{2}{3}$ and $\frac{3}{4}$ are not equivalent.