

Practice 3 - 3: Dividing Fractions

Name _____

Write the statement in two other ways.

1. $7 \div 8$

2. $\frac{5}{6}$

3. $\frac{5}{1} \cdot \frac{1}{8}$

4. $\frac{8}{1} \cdot \frac{1}{3}$

5. $\frac{4}{3}$

6. $9 \div 2$

Write the reciprocal of the number.

7. $\frac{2}{7}$

8. 4

9. $-\frac{1}{3}$

Write each division statement as the equivalent multiplication statement. Then multiply and simplify.

10. $\frac{1}{7} \div \frac{3}{7}$

11. $\frac{5}{2} \div \frac{1}{4}$

12. $\frac{2}{9} \div \left(-\frac{5}{9}\right)$

13. $-\frac{1}{3} \div \frac{5}{6}$

14. $\frac{5}{12} \div \frac{7}{8}$

15. $-4 \div \left(-\frac{2}{5}\right)$

Practice 3 - 3: Dividing Fractions

Name Key

Write the statement in two other ways.

1. $7 \div 8$

$\frac{7}{8}$, $\frac{7}{1} \cdot \frac{1}{8}$

2. $\frac{5}{6}$

$5 \div 6$, $\frac{5}{1} \cdot \frac{1}{6}$

3. $\frac{5}{1} \cdot \frac{1}{8}$

$\frac{5}{8}$, $5 \div 8$

4. $\frac{8}{1} \cdot \frac{1}{3}$

$\frac{8}{3}$, $8 \div 3$

5. $\frac{4}{3}$

$4 \div 3$, $\frac{4}{1} \cdot \frac{1}{3}$

6. $9 \div 2$

$\frac{9}{2}$, $\frac{9}{1} \cdot \frac{1}{2}$

Write the reciprocal of the number.

7. $\frac{2}{7}$ $\frac{7}{2}$

8. 4 $\frac{1}{4}$

9. $-\frac{1}{3}$ $-\frac{3}{1}$

Write each division statement as the equivalent multiplication statement. Then multiply and simplify.

10. $\frac{1}{7} \div \frac{3}{7} = \frac{1}{7} \cdot \frac{7}{3}$
 $= \frac{1}{3}$

11. $\frac{5}{2} \div \frac{1}{4} = \frac{5}{2} \cdot \frac{4}{1}$
 $= \frac{20}{2}$
 $= 10$

12. $\frac{2}{9} \div \left(-\frac{5}{9}\right) = \frac{2}{9} \cdot \left(-\frac{9}{5}\right)$
 $= -\frac{2}{5}$

13. $-\frac{1}{3} \div \frac{5}{6} = -\frac{1}{3} \cdot \frac{6}{5}$
 $= -\frac{\cancel{1} \cdot \cancel{3} \cdot 2}{\cancel{3} \cdot 5}$
 $= -\frac{2}{5}$

14. $\frac{5}{12} \div \frac{7}{8} = \frac{5}{12} \cdot \frac{8}{7}$
 $= \frac{\cancel{5} \cdot \cancel{4} \cdot 2}{\cancel{3} \cdot \cancel{4} \cdot 7}$
 $= \frac{10}{21}$

15. $-4 \div \left(-\frac{2}{5}\right) = -\frac{4}{1} \cdot \left(-\frac{5}{2}\right)$
 $= \frac{\cancel{2} \cdot \cancel{2} \cdot 5}{\cancel{1} \cdot \cancel{2}}$
 $= \frac{10}{1}$
 $= 10$