

Divide Fractions Answers

1. Divide Fractions with Circles

Notice that #1 and #5 are inverse and #2 and #6 are inverse.

1. $\frac{2}{3} \div \frac{1}{3} = 2$

2. $1\frac{1}{3} \div \frac{1}{3} = 4$

3. $1\frac{3}{4} \div \frac{1}{4} = 7$

4. $1\frac{3}{4} \div \frac{1}{2} = 3\frac{1}{2}$

5. $\frac{1}{3} \div \frac{2}{3} = \frac{1}{2}$

6. $\frac{1}{3} \div 1\frac{1}{3} = \frac{1}{4}$

2. Divide Fractions with Lines

1. $1\frac{1}{2} \div \frac{1}{2} = 3$

2. $1\frac{1}{2} \div \frac{3}{4} = 2$

Notice that as the divisor increases the quotient decreases

3. $1\frac{1}{2} \div 2 = \frac{3}{4}$

4. $1\frac{1}{2} \div 4 = \frac{3}{8}$

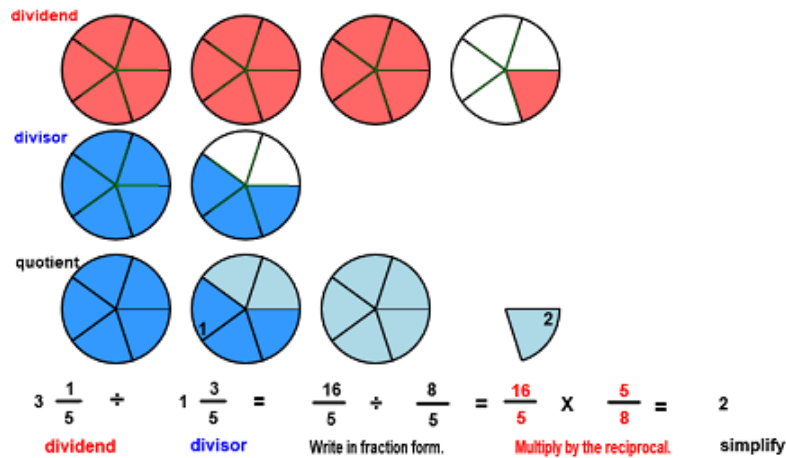
5. $1\frac{1}{2} \div 3 = \frac{1}{2}$

6. $3 \div 1\frac{1}{2} = 2$

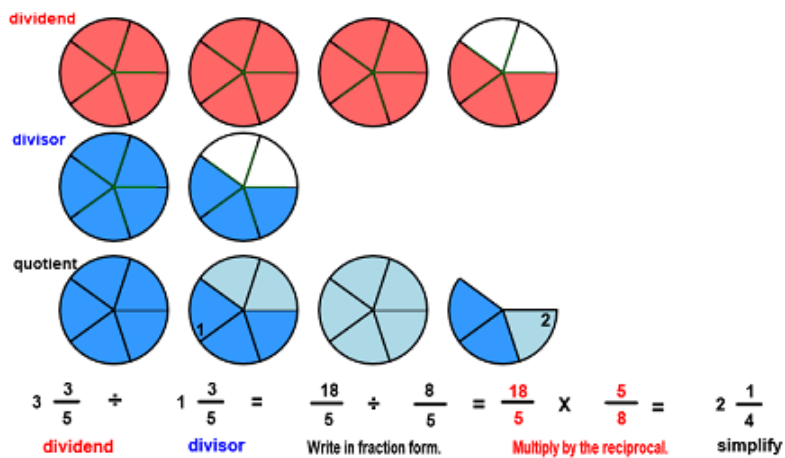
Notice that the quotients in #5 and #6 are inverse.

3. Divide Fractions with Circles

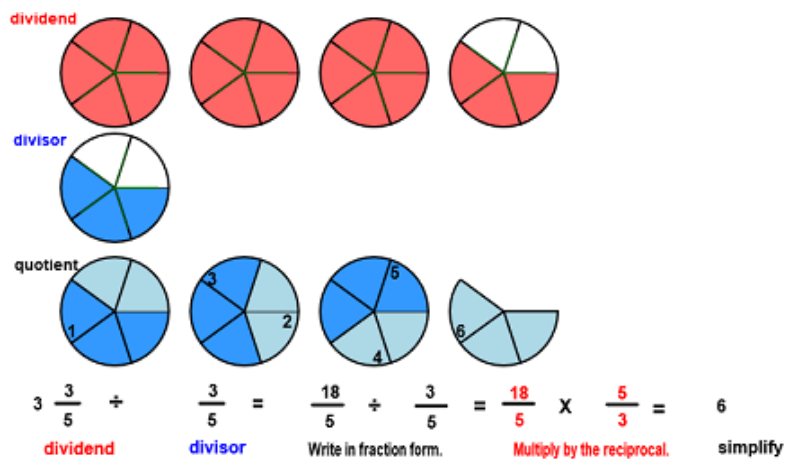
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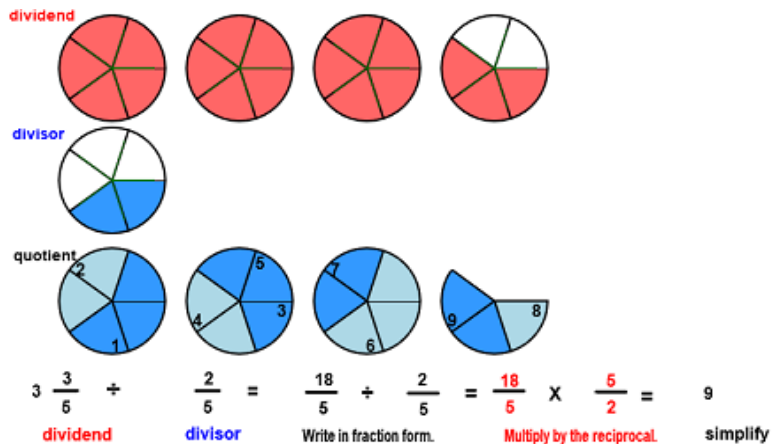
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3.

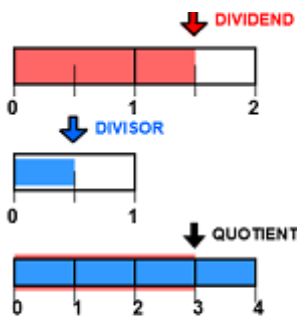


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4. Divide Fractions with Lines

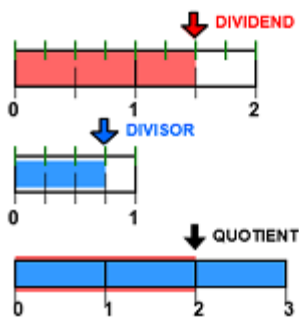
1.



$$1 \frac{1}{2} \div \frac{1}{2} = \frac{3}{2} \div \frac{1}{2} = \frac{3}{2} \times \frac{2}{1} = 3$$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

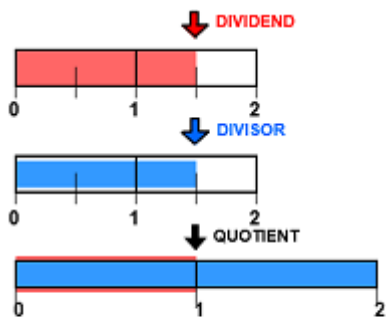
2.



$$1 \frac{1}{2} \div \frac{3}{4} = \frac{3}{2} \div \frac{3}{4} = \frac{3}{2} \times \frac{4}{3} = 2$$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

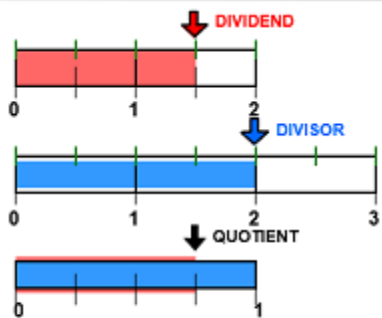
3.



$$1 \frac{1}{2} \div 1 \frac{1}{2} = \frac{3}{2} \div \frac{3}{2} = \frac{3}{2} \times \frac{2}{3} = 1$$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

4.

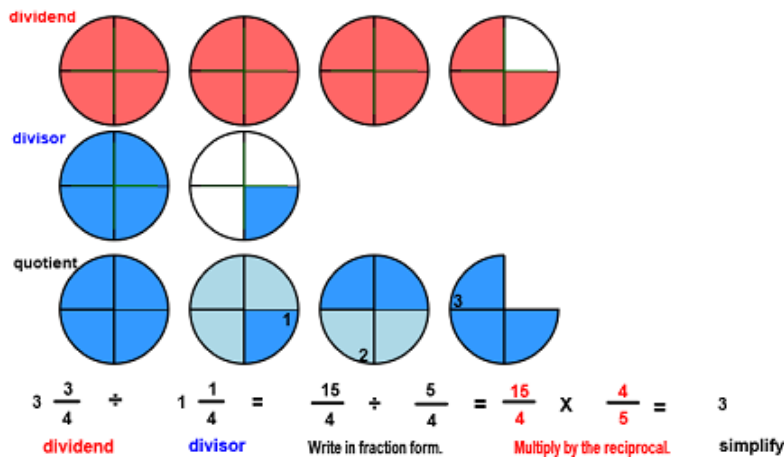


$$1 \frac{1}{2} \div 2 = \frac{3}{2} \div \frac{2}{1} = \frac{3}{2} \times \frac{1}{2} = \frac{3}{4}$$

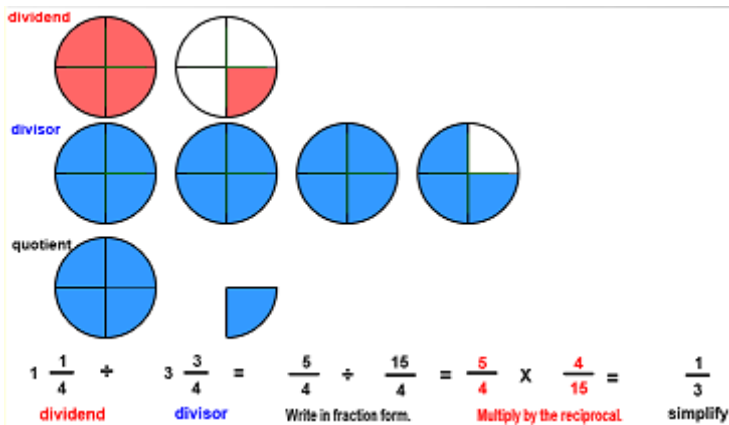
dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

5 Divide Fractions with Circles

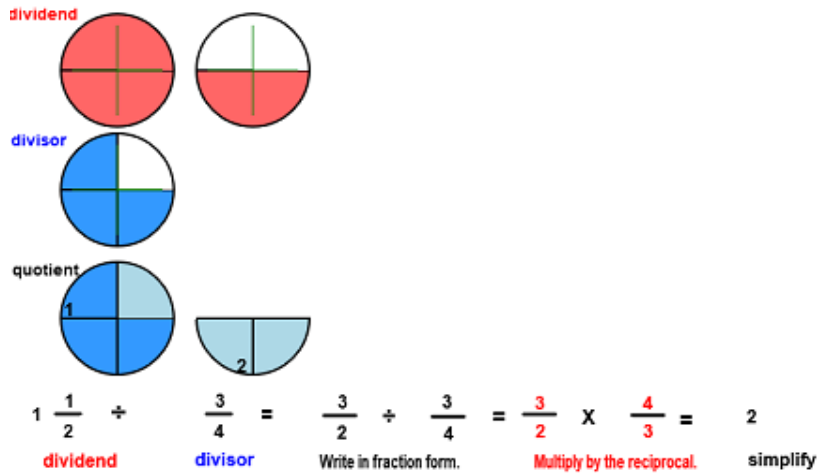
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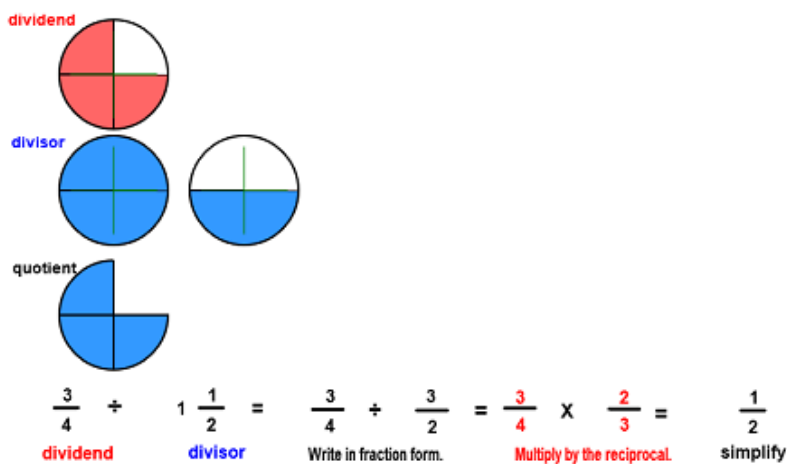
2.



3.



4.



6. Divide Fractions with Lines

1.

$3 \frac{1}{2} \div \frac{1}{2} = \frac{7}{2} \div \frac{1}{2} = \frac{7}{2} \times \frac{2}{1} = 7$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

2.

$3 \frac{1}{2} \div 1 \frac{1}{2} = \frac{7}{2} \div \frac{3}{2} = \frac{7}{2} \times \frac{2}{3} = 2 \frac{1}{3}$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

3.

$3 \frac{1}{2} \div 3 = \frac{7}{2} \div \frac{3}{1} = \frac{7}{2} \times \frac{1}{3} = 1 \frac{1}{6}$

dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

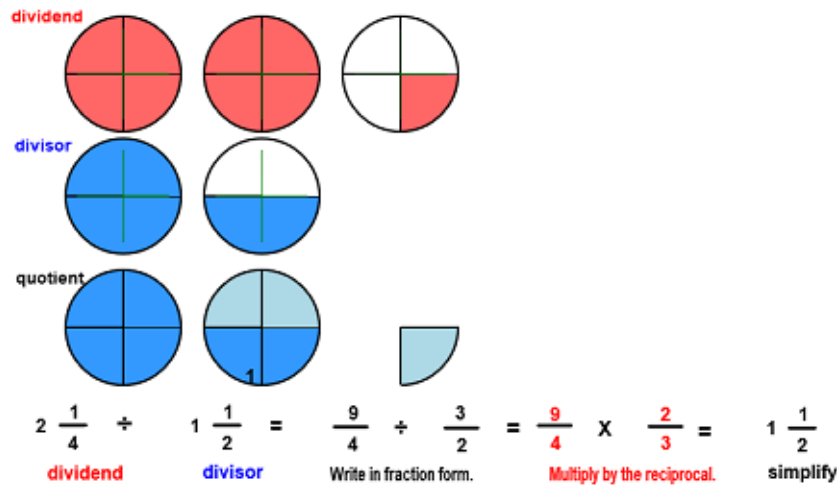
4.

$3 \frac{1}{2} \div 4 = \frac{7}{2} \div \frac{4}{1} = \frac{7}{2} \times \frac{1}{4} = \frac{7}{8}$

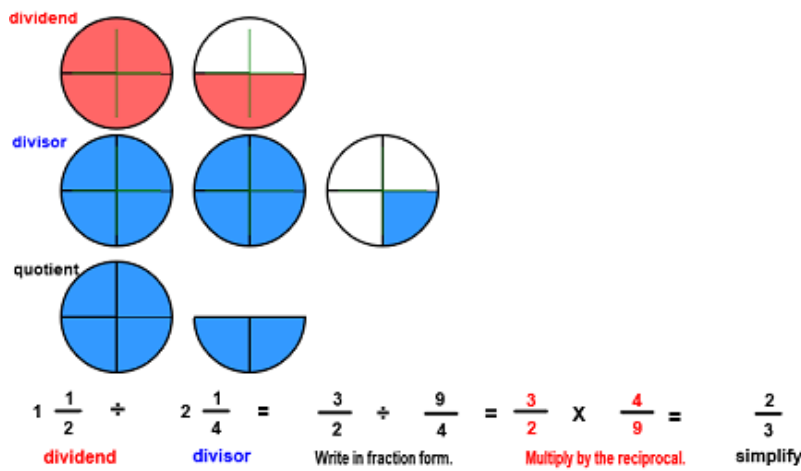
dividend divisor Write in fraction form. Multiply by the reciprocal. simplify

7. Divide Fractions with Circles and Lines

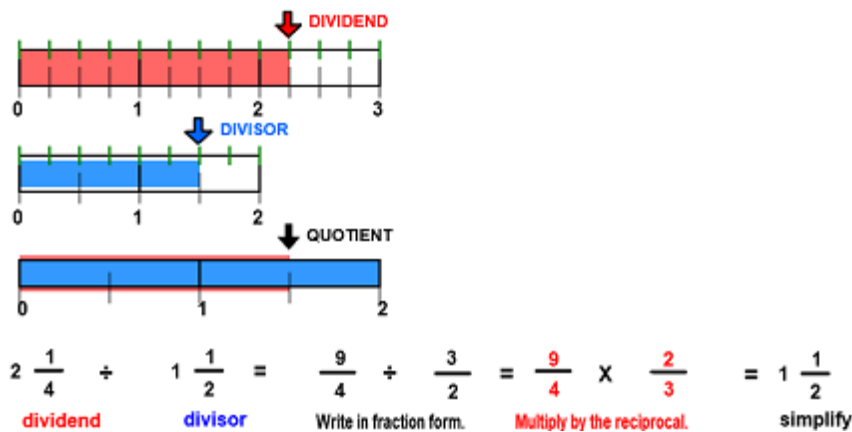
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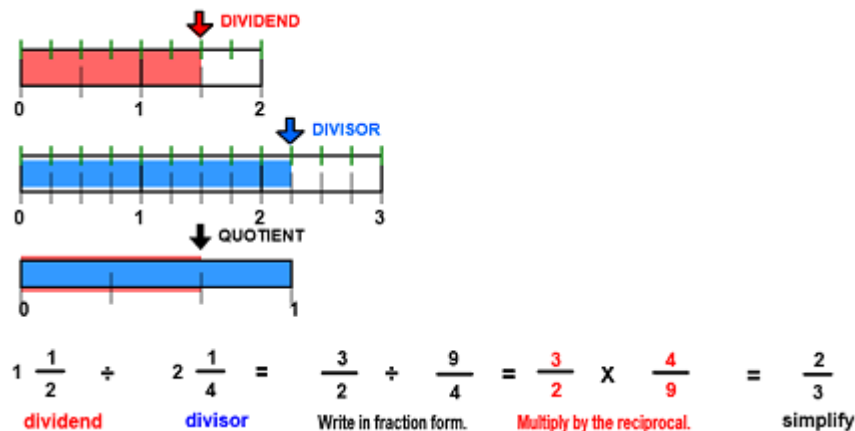
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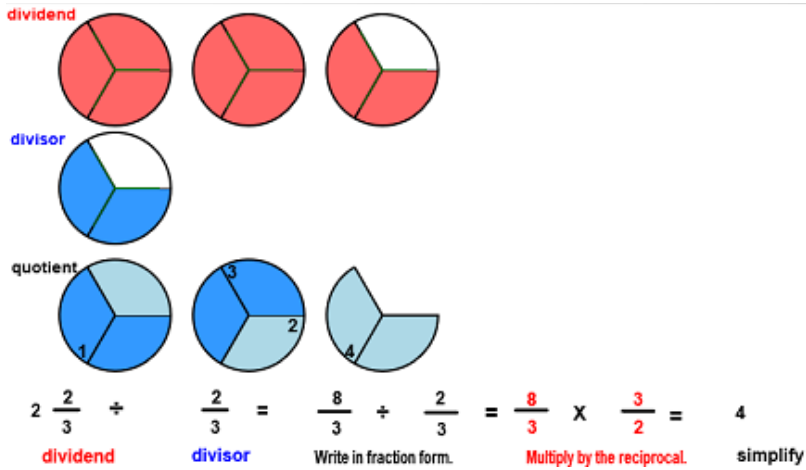


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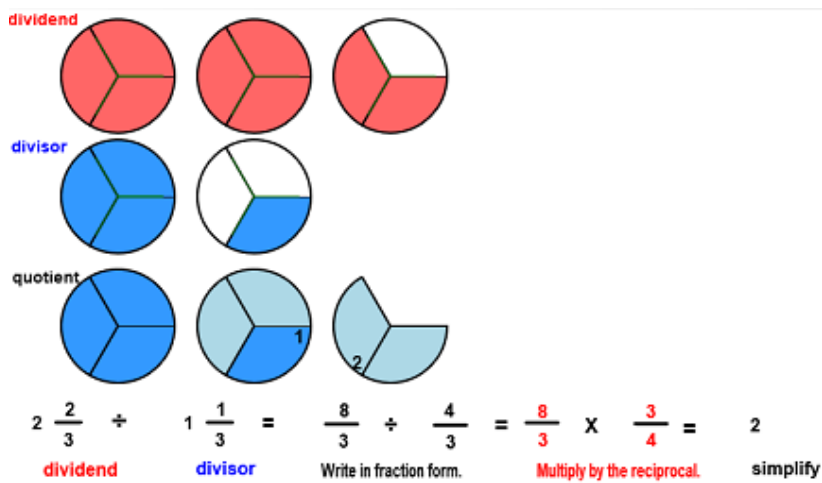


8. Divide Fractions with Circles and Lines

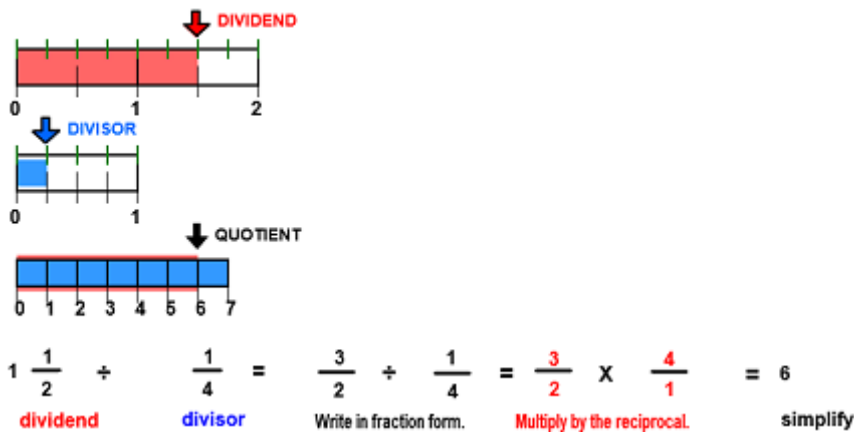
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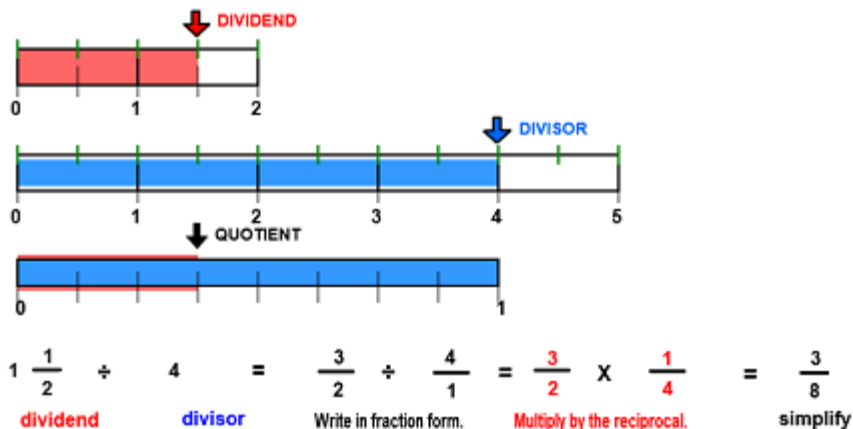
2.



3.



4.



9. Divide Practice

- $1 \frac{5}{8} \div \frac{5}{8} = \frac{13}{8} \div \frac{5}{8} = \frac{13}{8} \times \frac{8}{5} = 2 \frac{3}{5}$
- $1 \frac{5}{8} \div 1 \frac{5}{8} = \frac{13}{8} \div \frac{13}{8} = \frac{13}{8} \times \frac{8}{13} = 1$
- $1 \frac{5}{8} \div 2 \frac{5}{8} = \frac{13}{8} \div \frac{21}{8} = \frac{13}{8} \times \frac{8}{21} = \frac{13}{21}$
- $\frac{5}{6} \div 2 \frac{1}{2} = \frac{5}{6} \div \frac{5}{2} = \frac{5}{6} \times \frac{2}{5} = \frac{1}{3}$
- $1 \frac{5}{6} \div 2 \frac{1}{2} = \frac{11}{6} \div \frac{5}{2} = \frac{11}{6} \times \frac{2}{5} = \frac{11}{15}$
- $2 \frac{5}{6} \div 2 \frac{1}{2} = \frac{17}{6} \div \frac{5}{2} = \frac{17}{6} \times \frac{2}{5} = 1 \frac{2}{15}$
- $2 \frac{5}{6} \div 1 \frac{1}{2} = \frac{17}{6} \div \frac{3}{2} = \frac{17}{6} \times \frac{2}{3} = 1 \frac{8}{9}$
- $2 \frac{5}{6} \div 1 \frac{1}{3} = \frac{17}{6} \div \frac{4}{3} = \frac{17}{6} \times \frac{3}{4} = 2 \frac{1}{8}$
- $2 \frac{5}{6} \div 1 = \frac{17}{6} \div \frac{1}{1} = \frac{17}{6} \times \frac{1}{1} = 2 \frac{5}{6}$
- $2 \frac{5}{6} \div \frac{2}{3} = \frac{17}{6} \div \frac{2}{3} = \frac{17}{6} \times \frac{3}{2} = 4 \frac{1}{4}$
- $2 \frac{5}{6} \div \frac{1}{3} = \frac{17}{6} \div \frac{1}{3} = \frac{17}{6} \times \frac{3}{1} = 8 \frac{1}{2}$
- $2 \frac{5}{6} \div \frac{1}{6} = \frac{17}{6} \div \frac{1}{6} = \frac{17}{6} \times \frac{6}{1} = 17$