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

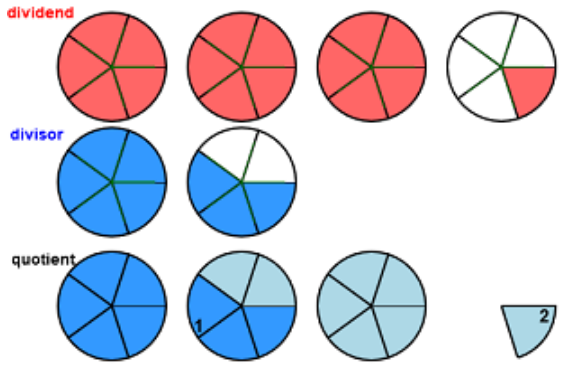
5. $1\frac{1}{2} \div 3 = \frac{1}{2}$

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

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

3. Divide Fractions with Circles

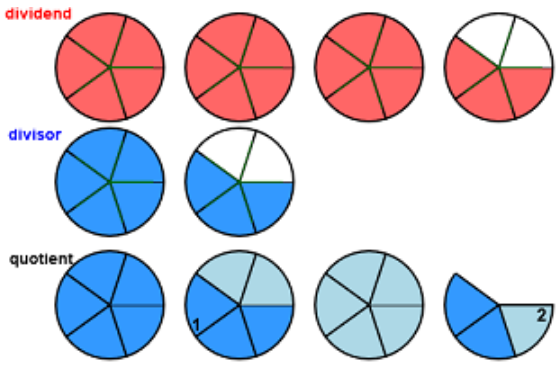
1.



$3\frac{1}{5} \div 1\frac{3}{5} = \frac{16}{5} \div \frac{8}{5} = \frac{16}{5} \times \frac{5}{8} = 2$

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

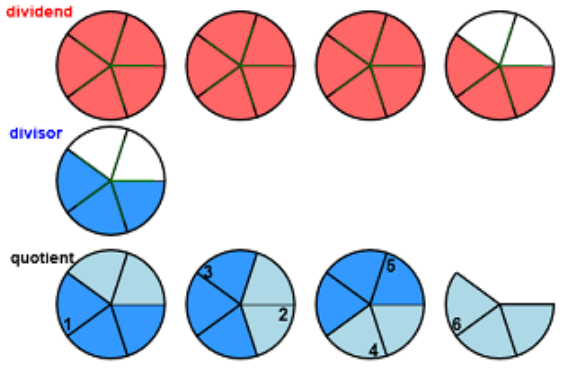
2.



$3\frac{3}{5} \div 1\frac{3}{5} = \frac{18}{5} \div \frac{8}{5} = \frac{18}{5} \times \frac{5}{8} = 2\frac{1}{4}$

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

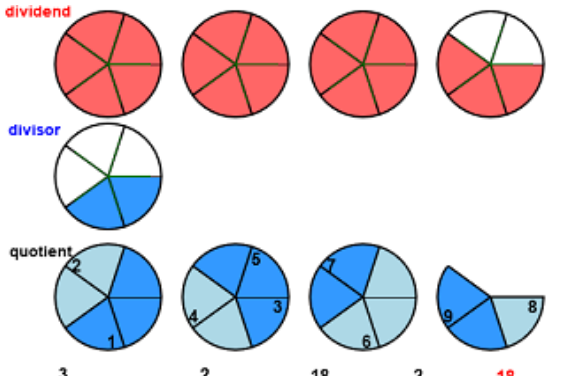
3.



$3\frac{3}{5} \div \frac{3}{5} = \frac{18}{5} \div \frac{3}{5} = \frac{18}{5} \times \frac{5}{3} = 6$

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

4.

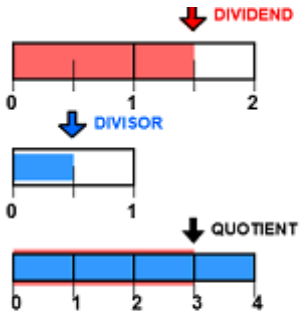


$3\frac{3}{5} \div \frac{2}{5} = \frac{18}{5} \div \frac{2}{5} = \frac{18}{5} \times \frac{5}{2} = 9$

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

4. Divide Fractions with Lines

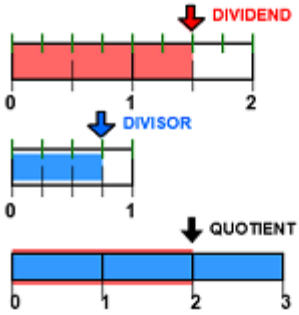
1.



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

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

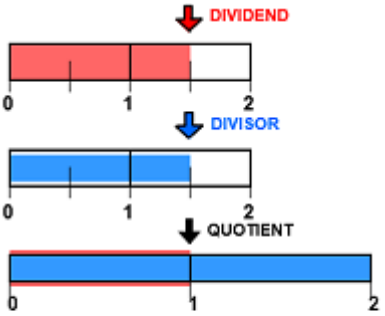
2.



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

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

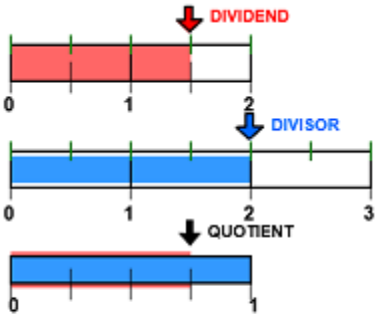
3.



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

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

4.

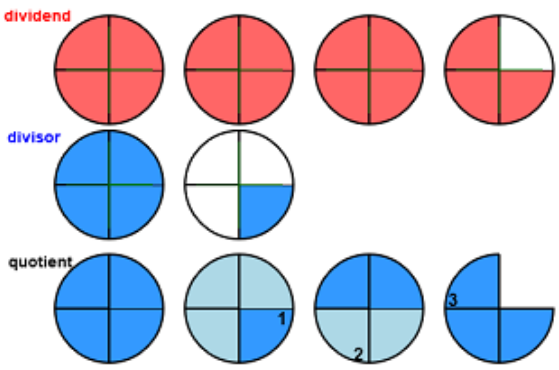


$1\frac{1}{2} \div 2 = \frac{3}{2} \div \frac{2}{1} = \frac{3}{2} \times \frac{1}{2} = \frac{3}{4}$

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

5 Divide Fractions with Circles

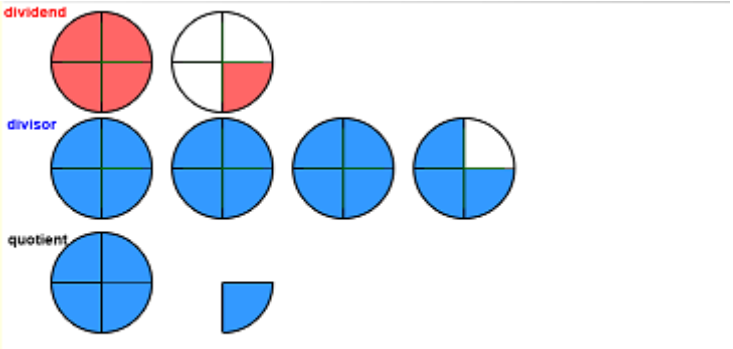
1.



$3\frac{3}{4} \div 1\frac{1}{4} = \frac{15}{4} \div \frac{5}{4} = \frac{15}{4} \times \frac{4}{5} = 3$

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

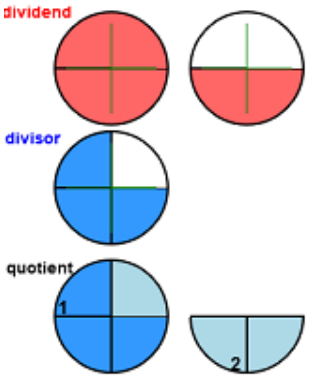
2.



$1\frac{1}{4} \div 3\frac{3}{4} = \frac{5}{4} \div \frac{15}{4} = \frac{5}{4} \times \frac{4}{15} = \frac{1}{3}$

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

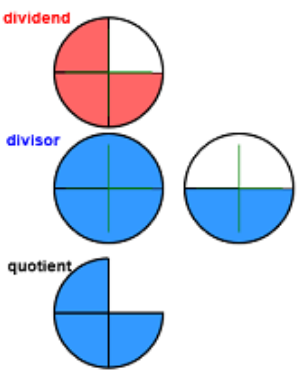
3.



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

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

4.

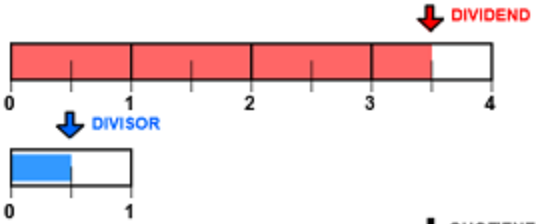


$\frac{3}{4} \div 1\frac{1}{2} = \frac{3}{4} \div \frac{3}{2} = \frac{3}{4} \times \frac{2}{3} = \frac{1}{2}$

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

6. Divide Fractions with Lines

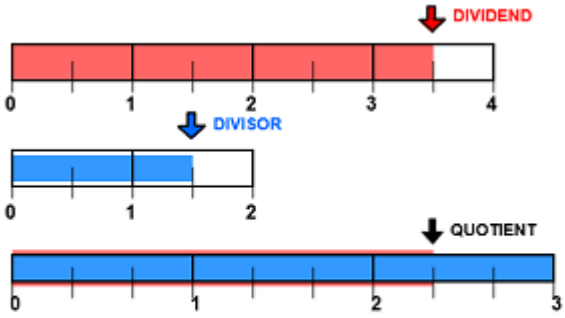
1.



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

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

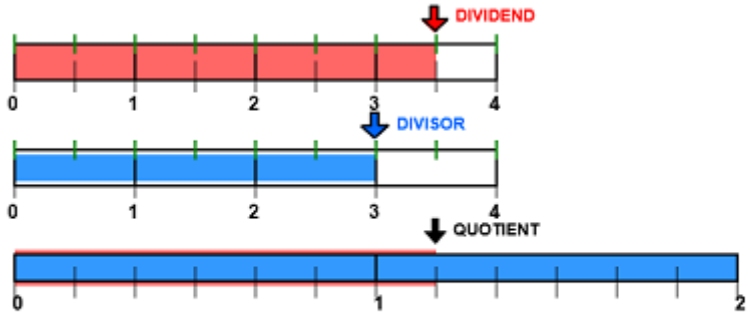
2.



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

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

3.

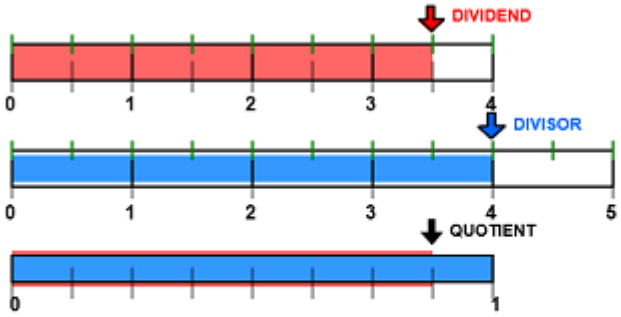


$3\frac{1}{2} \div 3 = \frac{7}{2} \div \frac{3}{1} = \frac{7}{2} \times \frac{1}{3} = 1\frac{1}{6}$

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

.

4.

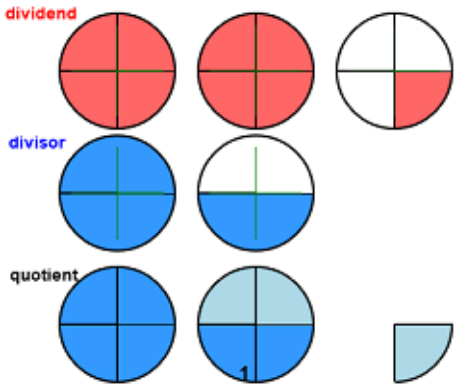


$3\frac{1}{2} \div 4 = \frac{7}{2} \div \frac{4}{1} = \frac{7}{2} \times \frac{1}{4} = \frac{7}{8}$

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

7. Divide Fractions with Circles and Lines

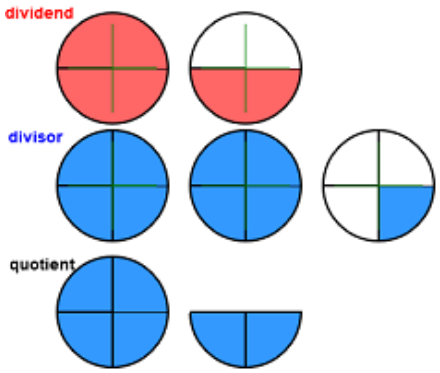
1.



$2\frac{1}{4} \div 1\frac{1}{2} = \frac{9}{4} \div \frac{3}{2} = \frac{9}{4} \times \frac{2}{3} = 1\frac{1}{2}$

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

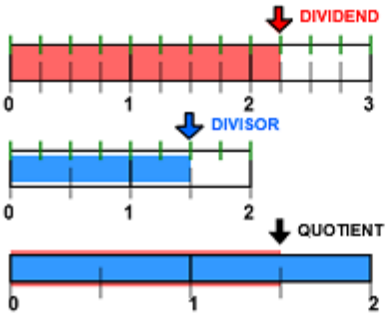
2.



$1\frac{1}{2} \div 2\frac{1}{4} = \frac{3}{2} \div \frac{9}{4} = \frac{3}{2} \times \frac{4}{9} = \frac{2}{3}$

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

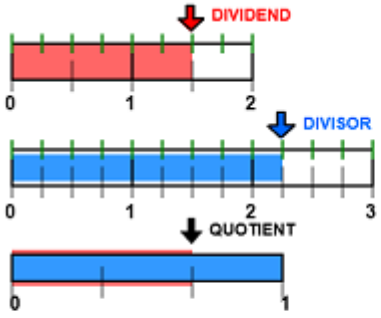
3.



$2\frac{1}{4} \div 1\frac{1}{2} = \frac{9}{4} \div \frac{3}{2} = \frac{9}{4} \times \frac{2}{3} = 1\frac{1}{2}$

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

4.

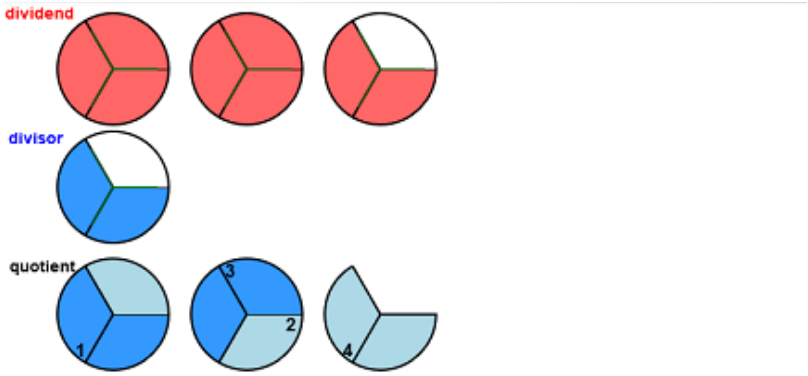


$1\frac{1}{2} \div 2\frac{1}{4} = \frac{3}{2} \div \frac{9}{4} = \frac{3}{2} \times \frac{4}{9} = \frac{2}{3}$

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

8. Divide Fractions with Circles and Lines

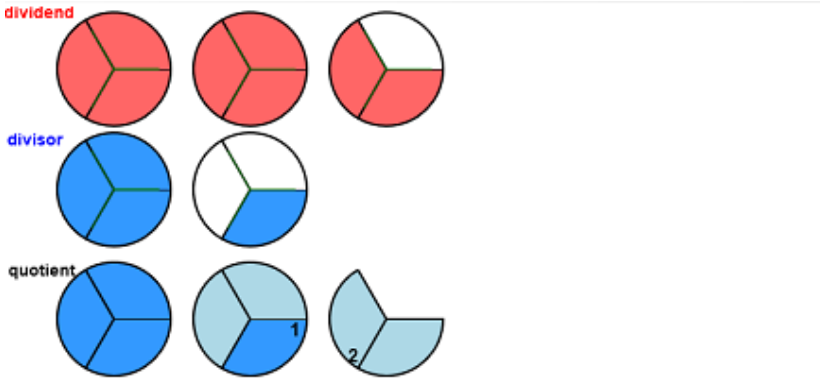
1.



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

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

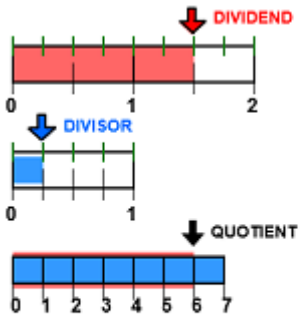
2.



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

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

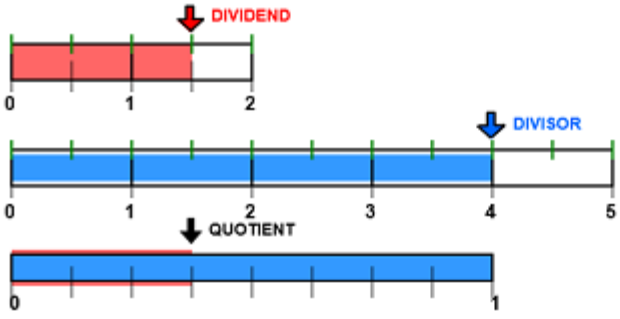
3.



$1\frac{1}{2} \div \frac{1}{4} = \frac{3}{2} \div \frac{1}{4} = \frac{3}{2} \times \frac{4}{1} = 6$

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

4.



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

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

9. Divide Practice

1. $1\frac{5}{8} \div \frac{5}{8} = \frac{13}{8} \div \frac{5}{8} = \frac{13}{8} \times \frac{8}{5} = 2\frac{3}{5}$

2. $1\frac{5}{8} \div 1\frac{5}{8} = \frac{13}{8} \div \frac{13}{8} = \frac{13}{8} \times \frac{8}{13} = 1$

3. $1\frac{5}{8} \div 2\frac{5}{8} = \frac{13}{8} \div \frac{21}{8} = \frac{13}{8} \times \frac{8}{21} = \frac{13}{21}$

4. $\frac{5}{6} \div 2\frac{1}{2} = \frac{5}{6} \div \frac{5}{2} = \frac{5}{6} \times \frac{2}{5} = \frac{1}{3}$

5. $1\frac{5}{6} \div 2\frac{1}{2} = \frac{11}{6} \div \frac{5}{2} = \frac{11}{6} \times \frac{2}{5} = \frac{11}{15}$

6. $2\frac{5}{6} \div 2\frac{1}{2} = \frac{17}{6} \div \frac{5}{2} = \frac{17}{6} \times \frac{2}{5} = 1\frac{2}{15}$

7. $2\frac{5}{6} \div 1\frac{1}{2} = \frac{17}{6} \div \frac{3}{2} = \frac{17}{6} \times \frac{2}{3} = 1\frac{8}{9}$

8. $2\frac{5}{6} \div 1\frac{1}{3} = \frac{17}{6} \div \frac{4}{3} = \frac{17}{6} \times \frac{3}{4} = 2\frac{1}{8}$

9. $2\frac{5}{6} \div 1 = \frac{17}{6} \div \frac{1}{1} = \frac{17}{6} \times \frac{1}{1} = 2\frac{5}{6}$

10. $2\frac{5}{6} \div \frac{2}{3} = \frac{17}{6} \div \frac{2}{3} = \frac{17}{6} \times \frac{3}{2} = 4\frac{1}{4}$

11. $2\frac{5}{6} \div \frac{1}{3} = \frac{17}{6} \div \frac{1}{3} = \frac{17}{6} \times \frac{3}{1} = 8\frac{1}{2}$

12. $2\frac{5}{6} \div \frac{1}{6} = \frac{17}{6} \div \frac{1}{6} = \frac{17}{6} \times \frac{6}{1} = 17$