

Division or Multiplication of Fraction

1. Find the quotient. Write it in the simplest form.

a. $4\frac{1}{2} \div 2\frac{1}{10}$

e. $1\frac{1}{24} \div \frac{2}{7}$

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

f. $4\frac{5}{6} \times 3\frac{1}{10}$

c. $6\frac{1}{10} \div \frac{1}{3}$

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

d. $15 \times \frac{1}{5}$

h. $6 \times \frac{1}{20}$

Solution:

a.

e.

b.

f.

c.

g.

d.

h.

2. Rico weighs $1\frac{1}{4}$ times of his weight from last month, for four consecutive months. If Rico's initial weight was $6\frac{2}{5}$ pounds, how much does he weigh after four months?

Solution:

3. Jerome's motorcycle runs 62 miles for each $3\frac{1}{8}$ gallons of gas. If his motorcycle has $13\frac{1}{2}$ gallons of gas in the tank, how far can Jerome drive his motorcycle till he needs to buy more gas?

Solution:

4. Complete the table.

x	$5\frac{1}{2}$	$2\frac{1}{4}$	$7\frac{1}{8}$
$x \div 2\frac{1}{3}$			
$x \div 3\frac{1}{6}$			

x	$7\frac{2}{5}$	$9\frac{4}{5}$	$6\frac{1}{2}$
$x \div 1\frac{1}{2}$			
$x \div 2\frac{4}{5}$			

5. Timothy earned \$52 by working for $4\frac{1}{3}$ hours in a grocery store. How much did he get paid per hour? How many hours will he have to work if he wants to buy a pair of basketball shoes worth $\$145\frac{1}{5}$ in a local store?

Solution:

1. Find the quotient. Write it in the simplest form.

a. $4\frac{1}{2} \div 2\frac{1}{10}$

e. $1\frac{1}{24} \div \frac{2}{7}$

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

f. $4\frac{5}{6} \times 3\frac{1}{10}$

c. $6\frac{1}{10} \div \frac{1}{3}$

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

d. $15 \times \frac{1}{5}$

h. $6 \times \frac{1}{20}$

Solution:

a. $2\frac{1}{7}$

e. $3\frac{31}{48}$

b. $3\frac{1}{11}$

f. $14\frac{59}{60}$

c. $18\frac{3}{10}$

g. $\frac{1}{7}$

d. 3

h. $\frac{3}{10}$

2. Rico weighs $1\frac{1}{4}$ times of his weight from last month, for four consecutive months. If Rico's initial weight was $6\frac{2}{5}$ pounds, how much does he weigh after four months?

Solution:

$15\frac{5}{8}$ pounds

3. Jerome's motorcycle runs 62 miles for each $3\frac{1}{8}$ gallons of gas. If his motorcycle has $13\frac{1}{2}$ gallons of gas in the tank, how far can Jerome drive his motorcycle till he needs to buy more gas?

Solution:

$267\frac{21}{25}$ miles

4. Complete the table.

x	$5\frac{1}{2}$	$2\frac{1}{4}$	$7\frac{1}{8}$
$x \div 2\frac{1}{3}$	$2\frac{5}{14}$	$\frac{27}{28}$	$3\frac{3}{56}$
$x \div 3\frac{1}{6}$	$1\frac{14}{19}$	$\frac{27}{38}$	$2\frac{1}{4}$

x	$7\frac{2}{5}$	$9\frac{4}{5}$	$6\frac{1}{2}$
$x \div 1\frac{1}{2}$	$4\frac{14}{15}$	$6\frac{8}{15}$	$4\frac{1}{3}$
$x \div 2\frac{4}{5}$	$2\frac{9}{14}$	$3\frac{1}{2}$	$2\frac{9}{28}$

5. Timothy earned \$52 by working for $4\frac{1}{3}$ hours in a grocery store. How much did he get paid per hour? How many hours will he have to work if he wants to buy a pair of basketball shoes worth $\$145\frac{1}{5}$ in a local store?

Solution:

\$12 ; $12\frac{1}{10}$ hours