tutorified

Division of Fraction

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

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

   b. $\frac{7}{2} \div \frac{4}{21}$

   c. $\frac{4}{20} \div \frac{17}{30}$

   d. $10 \div \frac{1}{5}$

   e. $\frac{1}{24} \div \frac{2}{30}$

   f. $\frac{5}{8} \div \frac{11}{10}$

   g. $\frac{1}{2} \div 8$

   h. $16 \div \frac{1}{20}$

Solution:

a. e.

b. f.

c. g.

d. h.

2. Nancy can paint $\frac{1}{6}$ of a painting in $\frac{1}{3}$ of an hour. What fraction of the painting can she complete in $1\frac{1}{3}$ hours?

Solution:

3. It takes $\frac{3}{4}$ gallons of paint for Celine to finish painting her room. Celine does painting once every two months. How many months does a container having 6 gallons of paint last for Celine?

Solution:

4. Complete the table.

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

x	$\frac{12}{25}$	$\frac{15}{40}$	60
$x \div \frac{1}{2}$			
$x \div \frac{4}{5}$			

5. Simon walked $\frac{1}{6}$ of a marathon in 15 minutes. At the same speed, how long will it take for him to reach the halfway mark since he started walking?

Solution:

A. 25 minutes B. 35 minutes C. 45 minutes D. 50 minutes

tutorified

Division of Fraction

Answer Key

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

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

b. $\frac{7}{2} \div \frac{4}{21}$

c. $\frac{4}{20} \div \frac{17}{30}$

d. $10 \div \frac{1}{5}$

e. $\frac{1}{24} \div \frac{2}{30}$

f. $\frac{5}{8} \div \frac{11}{10}$

g. $\frac{1}{2} \div 8$

h. $16 \div \frac{1}{20}$

Solution:

a. 5

b. $18\frac{3}{8}$

c. $\frac{6}{17}$

d. 50

e. $\frac{5}{8}$

f. $\frac{25}{44}$

g. $\frac{1}{16}$

h. 320

2. Nancy can paint $\frac{1}{6}$ of a painting in $\frac{1}{3}$ of an hour. What fraction of the painting can she complete in$1\frac{1}{3}$ hours?

Solution:
$\frac{2}{3}$ of the painting

3. It takes $\frac{3}{4}$ gallons of paint for Celine to finish painting her room. Celine does painting once every two months. How many months does a container having 6 gallons of paint last for Celine?

Solution:
16 months

4. Complete the table.

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

x	$\frac{12}{25}$	$\frac{15}{40}$	60
$x \div \frac{1}{2}$	$\frac{24}{25}$	$\frac{3}{4}$	120
$x \div \frac{4}{5}$	$\frac{3}{5}$	$\frac{15}{32}$	75

5. Simon walked $\frac{1}{6}$ of a marathon in 15 minutes. At the same speed, how long will it take for him to reach the halfway mark since he started walking?

A. 25 minutes B. 35 minutes C. 45 minutes D. 50 minutes

Solution:
C