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Division of Fraction by another Fraction

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

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

   b. $\frac{3}{2} \div \frac{4}{7}$

   c. $\frac{4}{60} \div 5$

   d. $\frac{1}{3} \div \frac{1}{5}$

   e. $\frac{15}{24} \div \frac{2}{30}$

   f. $7 \div \frac{9}{10}$

   g. $\frac{1}{2} \div \frac{7}{30}$

   h. $18 \div \frac{3}{20}$

Solution:

a. e.

b. f.

c. g.

d. h.

2. Stephen painted $\frac{1}{8}$ of $\frac{1}{3}$ of his room in 2 hours. What fraction of the room did he paint already? If he kept painting at the same rate, how many hours did he take to finish painting the whole room?

Solution:

3. Sylvia used $\frac{1}{5}$ of a bottle of chocolate syrup to decorate 4 pounds of cake. How many pounds of cake can be decorated by using a full bottle of chocolate syrup?

Solution:

4. Five workers are installing tiles floor in a house. The work is equally divided among the workers and work is scheduled to be completed in 5 days. What fraction of the whole floor is to be completed by each worker every day to finish the project on time?

Solution:

5. Valerie paid $\frac{1}{6}$ of a dollar to buy $\frac{1}{3}$ pounds of lemon. How much money will she have to pay if she wants to buy 3 pounds of lemon?

Solution:

6. Duane walked $\frac{3}{5}$ miles of a marathon in $\frac{1}{4}$ of an hour. At the same speed, how many miles can he walk in two hours?

Solution:

7. Daniel drinks a half of soft drinks that weighed $\frac{1}{2}$ gallons. How many gallons of soft drinks did he drink?

Solution:

A. $\frac{1}{6}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. 1

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Answer Key

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

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

b. $\frac{3}{2} \div \frac{4}{7}$

c. $\frac{4}{60} \div 5$

d. $\frac{1}{3} \div \frac{1}{5}$

e. $\frac{15}{24} \div \frac{2}{30}$

f. $7 \div \frac{9}{10}$

g. $\frac{1}{2} \div \frac{7}{30}$

h. $18 \div \frac{3}{20}$

Solution:

a. 2

b. $2\frac{5}{8}$

c. $\frac{1}{75}$

d. $1\frac{2}{3}$

e. $9\frac{3}{8}$

f. $7\frac{7}{9}$

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

h. 120

2. Stephen painted $\frac{1}{8}$ of $\frac{1}{3}$ of his room in 2 hours. What fraction of the room did he paint already? If he kept painting at the same rate, how many hours did he take to finish painting the whole room?

Solution:
$\frac{1}{24}$; 48 hours

3. Sylvia used $\frac{1}{5}$ of a bottle of chocolate syrup to decorate 4 pounds of cake. How many pounds of cake can be decorated by using a full bottle of chocolate syrup?

Solution:
20 pounds

4. Five workers are installing tiles floor in a house. The work is equally divided among the workers and work is scheduled to be completed in 5 days. What fraction of the whole floor is to be completed by each worker every day to finish the project on time?

Solution:
$\frac{1}{25}$

5. Valerie paid $\frac{1}{6}$ of a dollar to buy $\frac{1}{3}$ pounds of lemon. How much money will she have to pay if she wants to buy 3 pounds of lemon?

Solution:
$\$1\frac{1}{2}$

6. Duane walked $\frac{3}{5}$ miles of a marathon in $\frac{1}{4}$ of an hour. At the same speed, how many miles can he walk in two hours?

Solution:
$4\frac{4}{5}$ miles

7. Daniel drinks a half of soft drinks that weighed $\frac{1}{2}$ gallons. How many gallons of soft drinks did he drink?

Solution:
B

A. $\frac{1}{6}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. 1