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## Solve Equations Involving Fractions - I

Give what is asked in each item and write your answers on the space provided.

1. Find the value of the expression.
a. $3+\left(\frac{4}{5}-\frac{1}{5}\right)$
b. $\frac{5}{8}-\left(\frac{3}{8}-\frac{1}{8}\right)$
c. $\left(\frac{13}{4}-\frac{10}{8}\right)-\left(\frac{5}{3}-1\right)$
d. $\left(\frac{3}{15}+\frac{7}{15}\right)+\frac{3}{5}$

## Answers:

a.
b.
c.
d.
$\qquad$
2. Write an equation involving variables for the following problems and solve the equation.
a. I have 25 colored papers. The papers are colored black, white, and red. If $\frac{2}{5}$ are black and $\frac{1}{5}$ are white, how many red papers do I have?
b. Mother has $\$ 6,400$ on her wallet. If she gave $\frac{3}{8}$ of her money to father and $\frac{2}{8}$ of it to my brother, how much money was left to mother?

## Answers:

a.
b.
3. Solve the equations and find the value of $x$.
a. $x+\frac{4}{5}=1 \frac{1}{5}$
b. $x+\frac{5}{7}+\frac{9}{7}=\frac{16}{7}$

## Answers:

a.
b.
4. Write an equation involving a variable for the following problems and then tell what the variable represents.
a. Ben went away for a distance of 5 km from his house. He ran the first $\frac{1}{10}$ of the distance and walked the rest. For how far did Ben walk?
b. Hades has 6 kg of rice. Of the total kg of rice, $\frac{5}{12}$ are brown rice while the rest are white rice. How many kilograms are white rice?

Answers:
a.
b.

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## Answer Key

Give what is asked in each item and write your answers on the space provided.

1. Find the value of the expression.
a. $3+\left(\frac{4}{5}-\frac{1}{5}\right)$
b. $\frac{5}{8}-\left(\frac{3}{8}-\frac{1}{8}\right)$
c. $\left(\frac{13}{4}-\frac{10}{8}\right)-\left(\frac{5}{3}-\frac{1}{3}\right)$
d. $\left(\frac{3}{15}+\frac{7}{15}\right)+\frac{3}{5}$

## Answers:

a. $3 \frac{3}{5}$
b. $\frac{3}{8}$
c. $\frac{2}{3}$
d. $1 \frac{4}{15}$
2. Write an equation involving variables for the following problems and solve the equation.
a. I have 25 colored papers. The papers are colored black, white, and red. If $\frac{2}{5}$ are black and $\frac{1}{5}$ are white, how many red papers do I have?
b. Mother has $\$ 6,400$ on her wallet. If she gave $\frac{3}{8}$ of her money to father and $\frac{2}{8}$ of it to my brother, how much money was left to mother?

Answers:
a. $x=$ red papers
$x+\left(\frac{2}{5} \times 25+\frac{1}{5} \times 25\right)=25$
b. $y=$ money left to mother
$y+\left(\frac{3}{8} \times \$ 6400+\frac{2}{8} \times \$ 6400\right)=\$ 6400$
$x=10$ red papers $y=\$ 2400$ was left to mother
3. Solve the equations and find the value of $x$
a. $x+\frac{4}{5}=1 \frac{1}{5}$
b. $x+\frac{5}{7}+\frac{9}{7}=\frac{16}{7}$

Answers:
a. $\frac{2}{5}$
b. $\frac{2}{7}$
4. Write an equation involving a variable for the following problems and then tell what the variable represents.
a. Ben went away for a distance of 5 km from his house. He ran the first $\frac{1}{10}$ of the distance and walked the rest. For how far did Ben walk?
b. Hades has 6 kg of rice. Of the total kg of rice, $\frac{5}{12}$ are brown rice while the rest are white rice. How many kilograms are white rice?

Answers:
a. $x=$ distance walked
b. $y=\mathrm{kg}$ of white rice
$x+\left(\frac{1}{10} \times 5\right)=5$
$y+\left(\frac{5}{12} \times 6\right)=6$
$x=4 \frac{1}{2}$
$y=3 \frac{1}{2}$

