## tutorified

## 4.OA.A.3 Writing and Solving Equations

4.OA.A.3: Solve multistep word problems posed with whole numbers using the four operations.

1. Solve the equation and find $\boldsymbol{h}$.
a. $\quad \boldsymbol{h}+3=10$
b. $\boldsymbol{h}+3+7=20$
c. $2 \boldsymbol{h}+12=24$
d. $\boldsymbol{h} \times 8=64$
e. $h \div 5=3$
f. $12=36 \div \boldsymbol{h}$
g. $2 \times \boldsymbol{h} \times 3=72$
h. $\quad 9 \times \boldsymbol{h}=36$

## Solution:

a.
b.
c.
d.
e.
f.
g.
h. $\qquad$
2. Write an equation using a variable for the unknown. What does the variable represent?
a. William jogged a total of 19 miles. He first jogged 10 miles at 5 miles an hour. The rest, he jogged at a different speed. He took a total of 5 hours.
b. The total number of books divided equally among 7 kids at a class is 15 books for each student.
c. Michael had 12 sheets of paper. He used 5 sheets for his art project. He gave the rest to two of his friends.
d. Forty-two cards divided equally among seven players.
e. The equal numbers of paper clips in 5 boxes make a total of 70 .

Solution:
a.
b.
c.
d.
e.

## Solution:

## Solution:

## Solution:

## Solution:

A. $2 \boldsymbol{b} \times 4=60$
B. $2 \boldsymbol{b} \div 4=4$
C. $2 \boldsymbol{b} \div 3=4 \times 3$
D. $\boldsymbol{b}-3=6$

## tutorified

## 4.OA.A.3 Writing and Solving Equations

4.OA.A.3: Solve multistep word problems posed with whole numbers using the four operations.

1. Solve the equation and find $\boldsymbol{h}$.
a. $\quad \boldsymbol{h}+3=10$
b. $\boldsymbol{h}+3+7=20$
c. $\quad 2 \boldsymbol{h}+12=24$
d. $\boldsymbol{h} \times 8=64$
e. $h \div 5=3$
f. $12=36 \div \boldsymbol{h}$
g. $2 \times h \times 3=72$
h. $\quad 9 \times \boldsymbol{h}=36$

## Solution:

a. $\quad h=10-3=7$
b. $h=20-7-3=10$
c. $h=24-12 \div 2=6$
d. $\boldsymbol{h}=64 \div 8=8$
e. $h=3 \times 5=15$
f. $\quad h=36 \div 12=3$
g. $h=72 \div 3 \div 2=12$
h. $h=36 \div 9=4$
2. Write an equation using a variable for the unknown. What does the variable represent?
a. William jogged a total of 19 miles. He first jogged 10 miles at 5 miles an hour. The rest, he jogged at a different speed. He took a total of 5 hours.
b. The total number of books divided equally among 7 kids at a class is 15 books for each student.
c. Michael had 12 sheets of paper. He used 5 sheets for his art project. He gave the rest to two of his friends.
d. Forty-two cards divided equally among seven players.
e. The equal numbers of paper clips in 5 boxes make a total of 70 .
3. Cecille is putting cookies in 8 jars. She puts 6 cookies in each jar. She still has 4 cookies left. How many cookies does she have in total?
4. A worker painted 4 walls in 8 hours. How much time did he take to paint each wall?
5. Sophia studies four subjects each day for four days. Her total study time was 32 hours. How much time did she spend to study one subject?

Solution:
a. $\quad 10+\mathrm{k}=19$
$\mathrm{k}=$ distance at a different speed
b. $\mathrm{b} \div 7=15$
$\mathrm{b}=$ number of books
c. $\quad 12-5-\mathrm{r}=0$
$\mathrm{r}=$ sheets given to two friends
d. $42 \div 7=p$
$\mathrm{p}=$ number of cards per player
e. $5 \times \mathrm{c}=70$
$\mathrm{c}=$ number of paper clips in each box

## Solution:

$8 \times 6+4=52$
Answer: 52 cookies

## Solution:

$8 \div 4=2$
Answer: 2 hours

## Solution:

$32 \div 4 \div 4=2$
Answer: 2 hours
6. Which equation is true if $\boldsymbol{b}=8$ ?
A. $2 \boldsymbol{b} \times 4=60$
B. $2 \boldsymbol{b} \div 4=4$
C. $2 \boldsymbol{b} \div 3=4 \times 3$
D. $\boldsymbol{b}-3=6$

Solution:
B. $2 \boldsymbol{b} \div 4=4$

