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## Solving Algebraic Expressions

1. Evaluate the following algebraic expressions.
a. $7 a+11-4 a \quad$ if $a=6$
b. $3 b+4-8 \quad$ if $b=3$
c. $8 c+17-5 c \quad$ if $c=5$
d. $x-25 \div y \quad$ if $x=30, y=5$
e. $9 n \div 3-6 \mathrm{~m}+7 \quad$ if $n=6, \mathrm{~m}=2$
f. $\quad 5+(x-7) \div(y-7)$ if $x=12, y=13$

Solution:
a.
b.
c.
d.
e.
f.
2. Write an algebraic expression using a variable. State what that variable represents.
a. Steve's height is twice of Grace's height.
b. The boys in the class is three more than four times the number of girls.

Solution:
a.
b.
c.
d.
e. marbles in each bag. She had 3 marbles leftover that didn't fit in the bag.

## Solution:

a.
b.
c.
d.
e.
f.
g.
g. $a \div 4-6=5-3$
4. Julie has $\mathbf{\$ 5 0}$, which is eight dollars more than twice what John has. How much does John have?

Solution:
5. A class of $\mathbf{5 0}$ students is divided into two groups, one group has eight less than the other. How many are in each group?
a. $21 \& 29$
b. $19 \& 31$
c. $30 \& 20$
d. $25 \& 25$

Solution:

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## Solving Algebraic Expressions

1. 

a. 29
b. 5
c. 32
d. 25
e. 13
f. $5 \frac{5}{6}$
2.
a. $2 t(t=$ Grace's height $)$
b. $4 \mathrm{~s}+3$ ( $\mathrm{s}=$ number of girls in class)
c. $\frac{1}{2} \mathrm{~m}+5=11(\mathrm{~m}=$ the number being divided)
d. $2 \mathrm{n}+6(\mathrm{n}=$ Nets' points in first quarter $)$
e. $4 \mathrm{~m}+3(\mathrm{~m}=$ number of marbles in each bag)
3.
a. $\mathrm{a}=8$
b. $n=4$
c. $\mathrm{p}=21$
d. $b=5$
e. $s=1$
f. $m=1$
g. $a=32$
4. $\$ 21$
5. A

