## Overview of problems

Example Set: A

## State the meaning of the variable expressions:

1. $4 x+2$
2. $6 a-3 b$
3. $\frac{y}{2}+5$
4. $d=r t$
5. $(x+y)+z$
6. $\frac{7 x y z}{(m-n)}$

## Example Set: B

Write as a variable expression:

1. 9 times $y$ plus 5
2. ( $x$ plus $m$ ) divided by ( 2 times $r$ )
3. $a$ times $b$ times $c$ minus two

# Variables 1.2 

## Overview of problems

4. $c$ to the $z$ powe
5. the difference of $n$ and $p$

## Example Set: C

## Evaluate the expressions:

1. $3 x-2 \quad$ when $x=9$
2. $8 a+5 c \quad$ when $a=2, c=10$
3. $5 y+2(y-1) \quad$ when $y=6$
4. $(x y z)^{n} \quad$ when $x=1, y=2, z=3, n=4$

Example Set: D

## Evaluate the expressions:

1. $x y+(z-1)$ when $x=2, y=4, z=8$
2. $[5 x(4+x)] \div y \quad$ when $x=3, y=2$

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3. $\frac{3.8 a+7.2 x}{(x-a)} \quad$ when $a=1.9, x=2.5$
4. $a^{2}+b^{2}=c^{2} \quad$ when $a=3, b=4, c=5$

## Example Set: A -ANSWER KEY

## State the meaning of the variable expression:

1. $4 x+2=4$ times $x$ plus 2
2. $6 a-3 b=6$ times $a$ minus 3 times $b$
3. $\frac{y}{2}+5=y$ divided by 2 plus 5
4. $d=r t=d$ equals $r$ times $t$
5. $(x+y)+z=$ the sum of $x$ and $y$ plus $z$
6. $\frac{7 x y z}{(m-n)}=$ the product of $7, x, y$ and $z$ divided by the difference of $m$ and $n$

## Overview of problems

## Example Set: B- ANSWER KEY

## Write as a variable expression:

1. 9 times $y$ plus $5=9 y+5$
2. $(x$ plus $m)$ divided by $(2$ times $r)=\frac{x+m}{2 r}$
3. $a$ times $b$ times $c$ minus two $=a b c-2$
4. $c$ to the $z$ power $=c^{z}$
5. the difference of $n$ and $p=(n-p)$

## Example Set: C-ANSWER KEY

## Evaluate the expressions:

1. $3 x-2$ when $x=9=25$
2. $8 a+5 c \quad$ when $a=2, c=10=66$
3. $5 y+2(y-1)$ when $y=6=40$
4. $(x y z)^{n}$ when $x=1, y=2, z=3, n=4=1296$

# $p$ Example Set: D-ANSWER KEY 

## Evaluate the expressions:

1. $x y+(z-1)$ when $x=2, y=4, z=8=15$
2. $[5 x(4+x)] \div y \quad$ when $x=3, y=2 \quad=52.5$
3. $\frac{3.8 a+7.2 x}{(x-a)} \quad$ when $a=1.9, x=2.5 \quad=42.03$
4. $a^{2}+b^{2}=c^{2} \quad$ when $a=3, b=4, c=5 \quad=25=25$
