

# Algebra I

## 3.1 Worksheet

### Solving Equations

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

Solve each equation. Show your work. Box your answers.

True or false?

You would get more use out of a solar-powered calculator at the North Pole than at the South Pole.

To check your answer:

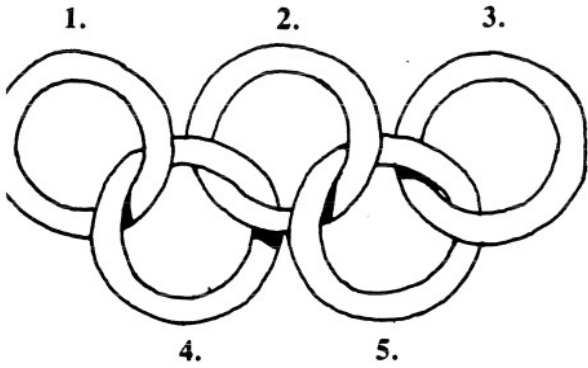
- Solve each equation.
- Then write each letter over its matching answer in the Decoder.

A $-4c = 40$	D $5c = -35$	E $-8z = -80$	F $6a = -96$
G $-2q = 28$	H $11a = 121$	T $-13j = 39$	L $12w = -156$
M $\frac{n}{5} = -1.5$	N $8t = 96$	O $\frac{d}{-9} = 54$	P $2g = 9$
R $-4u = 18$	S $\frac{r}{-6} = 82$	T $4r = -32$	U $\frac{f}{-3} = -78$
W $-3s = 57$	Y $\frac{v}{21} = -5$	E $-6s = 360$	S $\frac{h}{15} = -3$

### DECODER

$\overline{-8}$	$\overline{-4.5}$	$\overline{234}$	$\overline{10}$	$\overline{-8}$	$\overline{11}$	$\overline{10}$	$\overline{12}$	$\overline{-486}$	$\overline{-4.5}$	$\overline{-3}$	$\overline{11}$	$\overline{4.5}$	$\overline{-486}$	$\overline{-13}$	$\overline{-60}$				
$\overline{-14}$	$\overline{10}$	$\overline{-8}$	$\overline{-492}$	$\overline{-486}$	$\overline{12}$	$\overline{-60}$	$\overline{11}$	$\overline{234}$	$\overline{12}$	$\overline{-7}$	$\overline{-4.5}$	$\overline{10}$	$\overline{-7}$	$\overline{-8}$	$\overline{-19}$	$\overline{-60}$	$\overline{12}$	$\overline{-3}$	$\overline{-105}$
$\overline{-7.5}$	$\overline{-486}$	$\overline{-4.5}$	$\overline{10}$	$\overline{11}$	$\overline{-486}$	$\overline{234}$	$\overline{-4.5}$	$\overline{-45}$	$\overline{-486}$	$\overline{-16}$	$\overline{-45}$	$\overline{234}$	$\overline{12}$	$\overline{4.5}$	$\overline{10}$	$\overline{-4.5}$			
$\overline{-105}$	$\overline{-60}$	$\overline{-10}$	$\overline{-4.5}$	$\overline{-8}$	$\overline{11}$	$\overline{-10}$	$\overline{12}$	$\overline{-8}$	$\overline{11}$	$\overline{10}$	$\overline{-492}$	$\overline{-486}$	$\overline{234}$	$\overline{-3}$	$\overline{11}$				
$\overline{4.5}$	$\overline{-486}$	$\overline{-13}$	$\overline{-60}$																

Solve each equation. Show your work. Box your answers.



Can you name the colors of the five rings in the Olympic flag?

- Solve each equation.
- Then cross out each card containing an answer.
- Unscramble the letters on the remaining cards.

$$18 + f = 64$$

$$m(15) = 195$$

$$180 = w(20)$$

$$155 = w - 33$$

E 82	O 13	B 180	R 9	W 188
U 122	N 46	L 8	RING 1	

$$m - 38 = 38$$

$$37 = w + 29$$

$$42 = 8x$$

$$34 = \frac{e}{8}$$

K 66	O 76	U 5.25	L 7	B 225
E 8	A 0	R 272	C 5.5	RING 2

$$4.6 = \frac{a}{9}$$

$$g - 6.9 = 11.7$$

$$0.92 = y + 0.76$$

$$d + 18.8 = 21.7$$

D 1.68	O 0.16	G 18.6	R 40.5
N 41.4	E 4.8	A 2.9	RING 3

$$5.9 = \frac{r}{3.8}$$

$$3.75 = k(0.5)$$

$$11 = 9.8 + s$$

$$8.4 = m(1.2)$$

W 20.8	R 22.42	L 9.7	O 0.13	L 9.6
G 7.5	E 0.14	E 1.2	Y 8.5	N 7
RING 4				

$$1.37 = m - 0.69$$

$$b(1.9) = 6.84$$

$$7.9 + t = 9.01$$

$$\frac{n}{9.6} = 8.9$$

N 16.9	E 0.78	O 85.44	R 63.1	E 8.7
A 1.11	G 18.5	E 2.06	D 3.6	RING 5