Algebra I
4.3 Worksheet #1
Solving Equations

NAME:_____
DATE:_____ HOUR:_____

Solve each equation. Show your work. Box your answers. Show your check step.
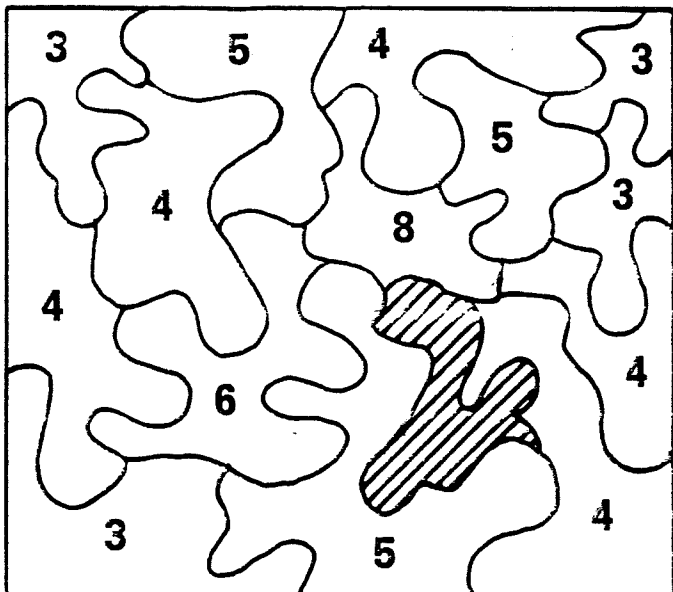
## ???? Trivia Question ????
### Sports

Jackie Robinson was the first African American baseball player to play in the **National** League. Who was the first African American player in the **American** League?

To check your answer:
- Solve each equation.
- Then cross out each card containing an answer.
- Read the player's name, using the letters in the remaining cards.

| | | | |
|---|---|---|---|
| $4 \cdot 0.6 = 2.4 \checkmark$<br>$\frac{4r}{4} = \frac{2.4}{4}$<br>$\boxed{r = 0.6}$ | $8b = 7.2$ | $12r = 0.84$ | **G** 0.6 (crossed out)   **E** 0.07   **O** 0.9   **L** 6.0   **A** 0.7 |
| $\frac{33.6}{8.4} = 4 \checkmark$<br>$8.4\left(\frac{b}{8.4}\right) = 4 \cdot 8.4$<br>$\boxed{b = 33.6}$ | $\frac{r}{6.2} = 8$ | $\frac{c}{0.06} = 9$ | **G** 33.6 (crossed out)   **E** 49.6   **J** 0.54   **R** 4.96   **R** 3.36 |
| $12.8 = 8n$ | $2.8 = 14a$ | $7.5 = \frac{e}{4}$ | **Y** 2   **K** 0.2   **C** 30   **A** 1.6   **D** 3.0 |
| $0.3 = \frac{g}{20.4}$ | $4k = 3$ | $\frac{n}{7.5} = 0.4$ | **O** 7.5   **M** 6.12   **P** 3   **E** 0.75 |
| $7.5 = m + 6.2$ | $b - 8.3 = 9.7$ | $0.3 = \frac{n}{7}$ | **E** 2.1   **B** 13   **T** 18   **A** 1.3 |
| $5t = 7$ | $1.2 = 4x$ | $\frac{b}{1.3} = 6$ | **R** 0.3   **L** 1.4   **Y** 14   **K** 7.8 |

*Answer:* _____

Solve each equation.

Show your work.

Box your answers.

Show your check step.

What number should go in the shaded area?

To check your answer:
- Solve each equation.
- Then write each letter over its matching answer in the Decoder.

| | | | |
|---|---|---|---|
| $24 = \frac{96}{4}$ ✓ <br> $4 \cdot 24 = \frac{d}{4} \cdot 4$ <br> **D** $\boxed{96 = d}$ | $76 = 57 + 19$ ✓ <br> $76 = c + 19$ <br> $\underline{-19 \quad\quad -19}$ <br> **C** $57 = c + 0$ <br> $\boxed{c = 57}$ | $99 = 118 - 19$ ✓ <br> $99 = b - 19$ <br> $\underline{+19 \quad\quad +19}$ <br> **B** $118 = b + 0$ <br> $\boxed{b = 118}$ | $378 = 18 \cdot 21$ ✓ <br> $\frac{378}{18} = \frac{18s}{18}$ <br> **S** $\boxed{21 = s}$ |
| $513 = 27g$ <br> **G** | $13 = \frac{u}{29}$ <br> **U** | $81 = m + 27$ <br> **M** | $26 = f - 39$ <br> **F** |
| $52 = o + 23$ <br> **O** | $1122 = 66h$ <br> **H** | $37 = \frac{r}{18}$ <br> **R** | $43 = i + 25$ <br> **I** |
| $71 = n + 48$ <br> **N** | $64 = a + 37$ <br> **A** | $928 = 58t$ <br> **T** | $36 = \frac{e}{26}$ <br> **E** |

## DECODER

$\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ ; $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\quad$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\overline{\quad}$ $\quad$ $\overline{\quad}$ $\overline{\quad}$
16  17  666  936  936    16  17  936   23  377  54  118  936  666   18  23

936  27  57  17   27  666  936  27   96  936  23  29  16  936  21

16  17  936   23  377  54  118  936  666   29  65

118  29  666  96  936  666  18  23  19   27  666  936  27  21