

Solve the Following Equations

1. $w - 15 = 35$

2. $42 = 7p$

3. $7 = \frac{x}{4}$

Solve and Check each of the following Equations

4. $2w + 5 = 9$

Check:

5. $\frac{p}{3} + 41 = 44$

Check:

6. $26 = 8 + 6x$

Check:

Solve each inequality (if necessary) and graph on the number line.

7. $y \leq 9$

8. $-5 > c$



9. $16 + m \geq 20$

10. $65 > 5b$



11. $7x - 4 < 94$



12. $4 + \frac{n}{3} \geq 6$



Solve the Following Equations

$$1. \quad w - 15 = 35$$

$$\begin{array}{r} +15 \\ +15 \end{array}$$

$$w = 50$$

$$2. \quad 42 = 7p$$

$$\begin{array}{r} \div 7 \\ \div 7 \end{array}$$

$$6 = p$$

$$3. \quad 7 = \frac{x}{4}$$

$$\begin{array}{r} \cdot 4 \\ \cdot 4 \end{array}$$

$$28 = x$$

Solve and Check each of the following Equations

$$4. \quad 2w + 5 = 9$$

$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$2w = 4$$

$$\begin{array}{r} \div 2 \\ \div 2 \end{array}$$

$$w = 2$$

Check:

$$P: 2w + 5 = 9$$

$$S: 2(2) + 5 = 9$$

$$S: 4 + 5 = 9$$

$$9 = 9 \checkmark$$

$$5. \quad \frac{p}{3} + 41 = 44$$

$$\begin{array}{r} -41 \\ -41 \end{array}$$

$$3 \cdot \frac{p}{3} = 3 \cdot 3$$

$$p = 9$$

Check:

$$P: \frac{p}{3} + 41 = 44$$

$$S: \frac{9}{3} + 41 = 44$$

$$S: 3 + 41 = 44$$

$$44 = 44 \checkmark$$

$$6. \quad 26 = 8 + 6x$$

$$\begin{array}{r} -8 \\ +8 \end{array}$$

$$18 = 6x$$

$$\begin{array}{r} \div 6 \\ \div 6 \end{array}$$

$$3 = x$$

Check:

$$P: 26 = 8 + 6x$$

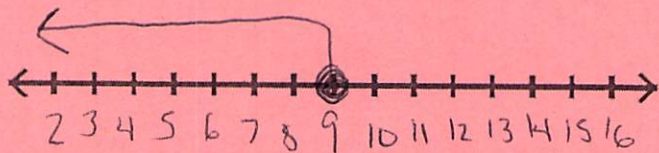
$$S: 26 = 8 + 6(3)$$

$$S: 26 = 8 + 18$$

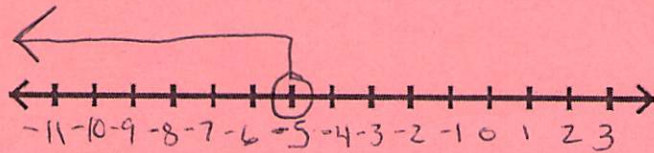
$$26 = 26 \checkmark$$

Solve each inequality (if necessary) and graph on the number line.

7. $y \leq 9$



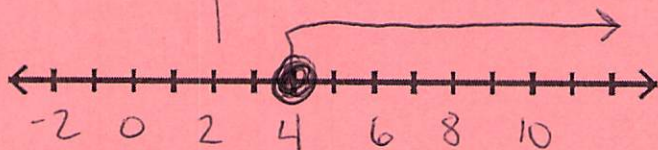
8. $-5 > c$ $c < -5$



9. $16 + m \geq 20$

-16 -16

$m \geq 4$

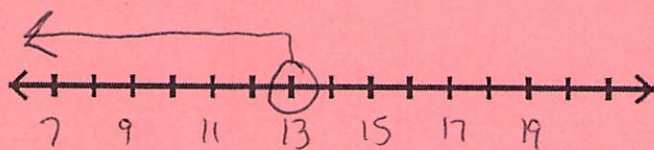


10. $65 > 5b$

$\div 5$ $\div 5$

$13 > b$

$b < 13$



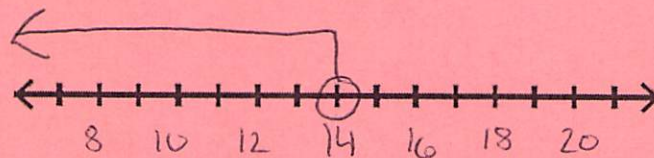
11. $7x - 4 < 94$

$+4$ $+4$

$7x < 98$

$\div 7$ $\div 7$

$x < 14$



12. $4 + \frac{n}{3} \geq 6$

-4 -4

$3 \cdot \frac{n}{3} \geq 2 \cdot 3$

$n \geq 6$

