

Chap. 1-4 Review

Date _____ Period _____

Evaluate each expression.

1) $-6 - (-6 - 5)$

2) $(-2 - 4) \div -2$

3) $\left(\frac{-3}{2} - \frac{-1}{4}\right) \div \frac{-2}{3}$

4) $\left(\frac{-4}{3} - \frac{1}{2}\right) \div 1$

Evaluate each using the values given.

5) $y + z \div 3$; use $y = -1$, and $z = -3$

6) $yz - x$; use $x = -3$, $y = 4$, and $z = -4$

Solve each equation.

7) $1 - 3p + 2p = -7$

8) $1 - 6k - 4 = -15$

9) $-5(7 + 6a) - 8a = 6a - (3a - 6)$

10) $8n - 2 + 5 - 4n = 5(n - 2) - (-1 - 5n)$

11) $\frac{8}{5}x + \frac{9}{2} - 1 = \frac{87}{10}$

12) $-\frac{2}{3}k + 1 + \frac{10}{7} = \frac{37}{21}$

13) $2.2 - 4n = 1.6 - 3.7n + 2.1n$

14) $-2.1 - 1.5m + m - 3 = m - 3.6$

$$15) 4 - 4|b| = -24$$

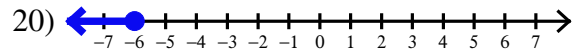
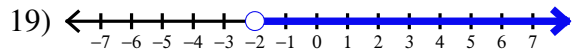
$$16) 3 + 3|n| = 18$$

Solve each proportion.

$$17) \frac{9}{6} = \frac{8}{x}$$

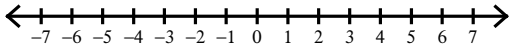
$$18) \frac{a}{5} = \frac{4}{8}$$

Write an inequality for each graph.

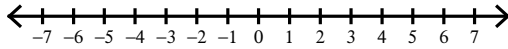


Draw a graph for each inequality.

$$21) p \geq -3$$

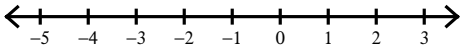


$$22) n < 5$$

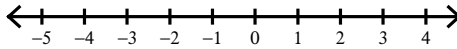


Solve each inequality and graph its solution.

$$23) -16m \leq 32$$



$$24) -17 > n - 16$$



$$25) \frac{m}{3} + 6 < 1$$

$$26) -5v - 8 \leq -33$$

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3) $\left(\frac{-3}{2} - \frac{-1}{4}\right) \div \frac{-2}{3}$

 $\frac{15}{8}$

4) $\left(\frac{-4}{3} - \frac{1}{2}\right) \div 1$

 $-\frac{11}{6}$ **Evaluate each using the values given.**

5) $y + z \div 3$; use $y = -1$, and $z = -3$

-2

6) $yz - x$; use $x = -3$, $y = 4$, and $z = -4$

-13

Solve each equation.

7) $1 - 3p + 2p = -7$

{8}

8) $1 - 6k - 4 = -15$

{2}

9) $-5(7 + 6a) - 8a = 6a - (3a - 6)$

{-1}

10) $8n - 2 + 5 - 4n = 5(n - 2) - (-1 - 5n)$

{2}

11) $\frac{8}{5}x + \frac{9}{2} - 1 = \frac{87}{10}$

 $\left\{\frac{13}{4}\right\}$

12) $-\frac{2}{3}k + 1 + \frac{10}{7} = \frac{37}{21}$

{1}

13) $2.2 - 4n = 1.6 - 3.7n + 2.1n$

 $\left\{\frac{1}{4}\right\}$

14) $-2.1 - 1.5m + m - 3 = m - 3.6$

{-1}

$$15) 4 - 4|b| = -24$$

$$\{7, -7\}$$

$$16) 3 + 3|n| = 18$$

$$\{5, -5\}$$

Solve each proportion.

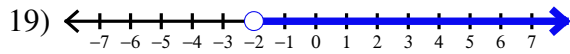
$$17) \frac{9}{6} = \frac{8}{x}$$

$$\{5.33\}$$

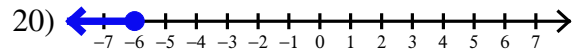
$$18) \frac{a}{5} = \frac{4}{8}$$

$$\{2.5\}$$

Write an inequality for each graph.



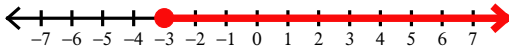
$$p > -2$$



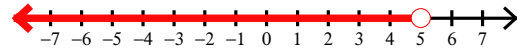
$$v \leq -6$$

Draw a graph for each inequality.

$$21) p \geq -3$$

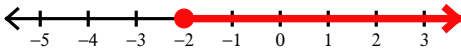


$$22) n < 5$$

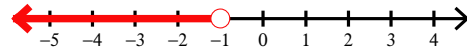


Solve each inequality and graph its solution.

$$23) -16m \leq 32$$



$$24) -17 > n - 16$$



$$25) \frac{m}{3} + 6 < 1$$

$$m < -15 : \text{ }$$

$$26) -5v - 8 \leq -33$$

$$v \geq 5 : \text{ }$$