

Unit 1 Test Review

Date _____ Period _____

Write each as an algebraic expression.

1) 12 more than a number

2) 26 less than n

3) the quotient of a number and 7

4) the product of 3 and a number

Solve each equation.

5) $-5k + 1 - 5k = 1$

6) $2r - 5r = -12$

7) $8(x + 8) = 104$

8) $-3(4x + 5) - 4 = -103$

9) $a - 5 = 15 - 3a$

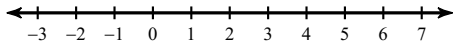
10) $2 + 4r = -2r + 7r + 10$

$$11) -16 + 7r = 2(1 + r) - 4r$$

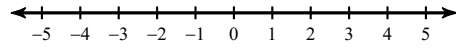
$$12) -17 + 2n = 2(4n - 8) - 7$$

Solve each inequality and graph its solution.

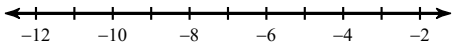
$$13) -m - 4m > 0$$



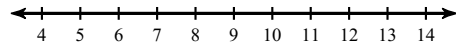
$$14) 8r + r < 9$$



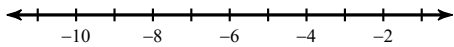
$$15) -6(3 - 4n) \geq -186$$



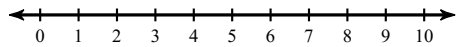
$$16) 8(4x + 4) \leq 224$$



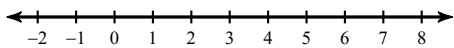
$$17) 7 + x + 8 \leq -15 - 4x$$



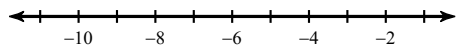
$$18) 4n + 1 \leq 5n - 6$$



$$19) 7(-7n + 8) + 8 > 23 - 8n$$



$$20) -5k + 3(-3k - 3) \leq 27 - 8k$$



Unit 1 Test Review

Date _____ Period _____

Write each as an algebraic expression.

1) 12 more than a number

$$n + 12$$

2) 26 less than n

$$n - 26$$

3) the quotient of a number and 7

$$\frac{n}{7}$$

4) the product of 3 and a number

$$3n$$

Solve each equation.

5) $-5k + 1 - 5k = 1$

$$\{0\}$$

6) $2r - 5r = -12$

$$\{4\}$$

7) $8(x + 8) = 104$

$$\{5\}$$

8) $-3(4x + 5) - 4 = -103$

$$\{7\}$$

9) $a - 5 = 15 - 3a$

$$\{5\}$$

10) $2 + 4r = -2r + 7r + 10$

$$\{-8\}$$

$$11) -16 + 7r = 2(1 + r) - 4r$$

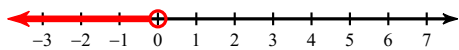
$\{2\}$

$$12) -17 + 2n = 2(4n - 8) - 7$$

$\{1\}$

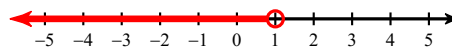
Solve each inequality and graph its solution.

$$13) -m - 4m > 0$$



$m < 0$

$$14) 8r + r < 9$$



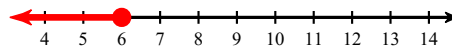
$r < 1$

$$15) -6(3 - 4n) \geq -186$$



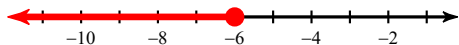
$n \geq -7$

$$16) 8(4x + 4) \leq 224$$



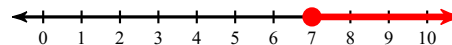
$x \leq 6$

$$17) 7 + x + 8 \leq -15 - 4x$$



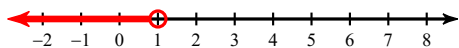
$x \leq -6$

$$18) 4n + 1 \leq 5n - 6$$



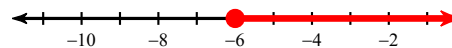
$n \geq 7$

$$19) 7(-7n + 8) + 8 > 23 - 8n$$



$n < 1$

$$20) -5k + 3(-3k - 3) \leq 27 - 8k$$



$k \geq -6$