

Name _____

Each of the 18 questions is worth 5 points plus 1 point for each of 10 homework problems for a total of 100

Find the value of the expression.

1) $\frac{3(8 + 8) + 3 \cdot 3}{3(2 - 1)}$

Evaluate the expression for the given values. If necessary, round to the nearest tenth.

2) $\frac{x + y}{15x - 5}$ $x = 10, y = 5$

Simplify.

3) $-\left|-\frac{3}{4}\right|$

Find the sum.

$$4) [16 + (-5)] + [24 + (-7)]$$

Find the difference.

$$5) -5 - [(16 - 1) - (-7 + 2)]$$

Perform the indicated operation.

$$6) \frac{-12(-6) - (-12)(-4)}{-6(3) - 3(-2)}$$

Use the distributive property to write without parentheses.

$$7) - (-4m + 2n - 5p)$$

Simplify the expression by combining like terms.

$$8) -\frac{3}{5}(z - 15) - \frac{1}{10}z$$

Solve the equation.

$$9) -7b + 1 + 5b = -3b + 6$$

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$$10) -5(-6x + 6) + 3(-5 - 4x) = -16 + 19x$$

$$11) \frac{3}{7}s = \frac{3}{4}$$

$$12) 7x + 4 = 3x + 6$$

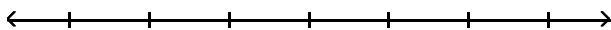
13) $4(3w + 4) = 2(4w + 24)$

Solve the equation by first clearing the fractions.

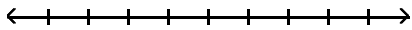
14) $-\frac{2}{3}x + 2x = \frac{6}{5}x + \frac{12}{5}$

Solve the inequality, then graph the solution.

15) $\frac{4}{3}t \geq -24$



$$16) 6(-7x - 14) - 5(x + 16) > 6(-7x - 16) - 7(x - 8)$$



Solve the problem.

17) A merchant has coffee worth \$30 a pound that she wishes to mix with 70 pounds of coffee worth \$70 a pound to get a mixture that can be sold for \$40 a pound. How many pounds of the \$30 coffee should be used?

18) A reservation clerk worked 10.35 hours one day. She spent twice as much time entering new reservations as she did verifying old ones and one and a half as much time calling to confirm reservations as verifying old ones. How much time did she spend entering new reservations?