

Summer Math Review - NO CALCULATOR - SHOW ALL WORK

Evaluate each expression.

1) $\frac{18}{6-3}$

2) $(2+5)(5)$

3) $(2)\left(\frac{18}{3}\right)$

4) $(2+6)(2)$

5) $\left(\frac{5}{5}\right)(2)$

Evaluate each using the values given.

6) $(4)(r+q)$; use $q = 3$, and $r = 1$

7) $(6)(x-y)$; use $x = 6$, and $y = 4$

8) $n + 5m$; use $m = 4$, and $n = 1$

9) $\frac{a}{6} + c$; use $a = 6$, and $c = 4$

10) $x + y - y$; use $x = 1$, and $y = 6$

Evaluate each expression.

11) $7 - 4$

12) $4 - 3$

$13) 3 - 2$

$14) 3 + (-1)$

$15) (-4) + 2$

$16) (-3) - (-7)$

$17) 1 - 7$

$18) (-7) - (-4)$

$19) (-5) - 8$

$20) 2 - (-8)$

Find each product.

$21) (-10)(-6)$

$22) (-8)(-5)$

$23) (-3)(-3)$

$24) (-2)(-3)$

$25) (6)(-5)$

Find each quotient.

$26) \frac{-4}{-1}$

$27) \frac{-56}{7}$

$28) \frac{-64}{8}$

$29) \frac{48}{-6}$

$$30) \frac{-81}{9}$$

Simplify each expression.

$$31) -9 - x + 7x$$

$$32) r + 6 - 6$$

$$33) -7 + 10p - 1$$

$$34) 5(-7 - 4x)$$

$$35) -9(7x - 2)$$

$$36) 5(x + 6)$$

$$37) -1 + 8(8k + 7)$$

$$38) 3(3m - 2) + 9$$

$$39) -2(a - 3) - 2a$$

$$40) 3(6 + 3x) + 6(10 - 5x)$$

$$41) 4(-2n - 5) + 2(n + 9)$$

$$42) 7(4 + 3m) - 10(6 - 3m)$$

Solve each equation.

$$43) 6 = -6 + n$$

$$44) 16 = 15 + n$$

$$45) a + 13 = -3$$

$$46) 152 = 2 + 10n$$

47) $\frac{n}{2} + 9 = 5$

48) $-2(9 + p) = -48$

49) $3(-3n - 3) = -45$

50) $-4(3a + 4) = -64$

51) $-3(-3x - 3) = 45$

52) $3(4 - 3m) = 48$

53) $52 = 4(4 + 3a)$

Solve each equation for the indicated variable.

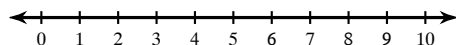
54) $ca = d - r$, for a

55) $z = -y + \frac{m}{x}$, for x

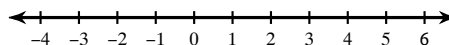
56) $g = -b + \frac{c}{a}$, for a

Solve each inequality and graph its solution.

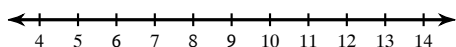
57) $-24 \leq -3(3 + b)$



58) $-9 \leq -3 - 2p$



59) $-(1 + x) \leq -9$



60) $-3(4 + p) \leq 18$

