Simplify each expression using mental math:

1. 2 \* 11 \* 20 2. 500 + 234 + 700
2. 48 + 82 + 32 4. 9 \* 8 \* 5 \* 2 \* 0

Name each property shown.

1. 14(mn) = (14m)n 6. 19 + 11 = 11 + 19
2. k \* 1 = k 8. p = 0 + p

Multiply each expression.

1. 2(x + 4) 10. (2 – m) ( -5)
2. x( -3 + y) 12. 2(x – 5y + 2z)
3. ( x – 2) (-6) 14. 8 [ ( -3 ) – y ]
4. (2x – 2x) 5 16. 5 ( 1 – 2yz)

Simplify each expression.

1. 12 + 5y – 1 18, 12m – 8 + 13m
2. 2(6x) – 12(5x) 20. 4x – 7y + 2x + 2y

Name the coefficients, any like terms, and any constants

Coefficients Like Terms Constants

1. 4x + 12
2. 6m – 12n + n

Is the given number a solution of the equation?

1. 3k = 10 – k; -1 24. -2r – 1 = -2r; 3
2. 3g -- (-6) = -3 – g; -6 26. -3p = 4p + 35; -5

Is each equation true, false, or an open sentence?

1. 13 = x – 2 28. -8 + 2 = 10
2. 5 – 16 = 23 - 34 30. 5 + x = 90 – 10 + 3