Math Practice - Grade 6

M7 Expressions, exponents, order of operations - Evaluate an expression

M7 6.EE.A.1, 6.EE.A.2, 6.EE.A.2a, 6.EE.A.2b, 6.EE.A.2c

Name: _____ Date: _____

Work out the value of the expression for the given value of the letter.

Example: Work out 8(y + 5) when y = 8.

How: Put the value in place of the letter first. Then work in order: parentheses, exponents, multiply and divide, add and subtract.

$8(y + 5) =$ 104

1 **Work out 6y - 2 when y = 7.**

$6y - 2 =$ ☐

2 **Work out 3(y + 7) when y = 9.**

$3(y + 7) =$ ☐

3 **Work out 3y - 8 when y = 5.**

$3y - 8 =$ ☐

4 **Work out 5x - 4 when x = 9.**

$5x - 4 =$ ☐

5 **Work out 4x - 7 when x = 2.**

$4x - 7 =$ ☐

6 **Work out $y^2 + 3$ when y = 1.**

$y^2 + 3 =$ ☐

7 **Work out $x^2 + 4$ when x = 9.**

$x^2 + 4 =$ ☐

8 **Work out $x^2 + 7$ when x = 5.**

$x^2 + 7 =$ ☐

9 **Work out 4x + 2 when x = 10.**

$4x + 2 =$ ☐

10 **Work out $x^2 + 3$ when x = 6.**

$x^2 + 3 =$ ☐

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Name: _____ Date: _____

Work out the value of the expression for the given value of the letter.

Example: Work out 2x + 2 when x = 5.

How: Put the value in place of the letter first. Then work in order: parentheses, exponents, multiply and divide, add and subtract.

$2x + 2 =$ 12

1 **Work out 2x - 2 when x = 3.**

$2x - 2 =$ ☐

2 **Work out 6(y + 6) when y = 1.**

$6(y + 6) =$ ☐

3 **Work out 5y + 9 when y = 9.**

$5y + 9 =$ ☐

4 **Work out 4y + 9 when y = 9.**

$4y + 9 =$ ☐

5 **Work out 9x + 4 when x = 9.**

$9x + 4 =$ ☐

6 **Work out 9y + 8 when y = 2.**

$9y + 8 =$ ☐

7 **Work out 6y + 2 when y = 5.**

$6y + 2 =$ ☐

8 **Work out 4y - 4 when y = 5.**

$4y - 4 =$ ☐

9 **Work out 8(x + 6) when x = 1.**

$8(x + 6) =$ ☐

10 **Work out $x^2 + 2$ when x = 7.**

$x^2 + 2 =$ ☐

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Name: _____ Date: _____

Work out the value of the expression for the given value of the letter.

Example: Work out 6y + 2 when y = 7.

How: Put the value in place of the letter first. Then work in order: parentheses, exponents, multiply and divide, add and subtract.

$6y + 2 =$ 44

1 **Work out $x^2 + 3$ when x = 9.**

$x^2 + 3 =$ ☐

2 **Work out 9y + 4 when y = 10.**

$9y + 4 =$ ☐

3 **Work out 7x - 5 when x = 4.**

$7x - 5 =$ ☐

4 **Work out 4(x + 7) when x = 5.**

$4(x + 7) =$ ☐

5 **Work out 6(x + 6) when x = 1.**

$6(x + 6) =$ ☐

6 **Work out 4(y + 8) when y = 3.**

$4(y + 8) =$ ☐

7 **Work out 9y + 8 when y = 5.**

$9y + 8 =$ ☐

8 **Work out 8x - 7 when x = 7.**

$8x - 7 =$ ☐

9 **Work out 9y + 2 when y = 4.**

$9y + 2 =$ ☐

10 **Work out $y^2 + 3$ when y = 7.**

$y^2 + 3 =$ ☐