

Evaluating Expressions Homework

Name KEY

Evaluate the expression.

1. $2x + 4$

$$2(\boxed{3}) + 4$$
$$6 + 4$$
$$10$$

Truth Statement: $x = 3$

Solution is
10, when
 $x = 3$

Remember:
the truth statement
goes in the box.
It's the unknown!

2. $\frac{1}{2}x - 7$

$$\frac{(\boxed{8})}{2} - 7$$
$$4 - 7$$
$$-3$$

Truth Statement: $x = 8$

Solution is -3,
when $x = 8$

3. $25y + 100$

$$25(\boxed{4}) + 100$$
$$100 + 100$$
$$200$$

Truth Statement: $y = 4$

Solution is 200,
when $x = 4$.

4. $32x + 29$

$$32(\boxed{7}) + 29$$
$$224 + 29$$
$$253$$

Truth Statement: $x = 7$

Solution is 253,
when $x = 7$

Create an expression, then evaluate using the Truth Statement: $x = 9$. Then write an equation that models the truth statement for the value.

5. Expression: $3x + 6$
 $3(9) + 6$
 $27 + 6$
 33

Truth Statement: $x = 9$

solution is 33,
when $x = 9$

Equation when $x = 9$: $3x + 6 = 33$

6. Expression: _____

Truth Statement: $x = 9$

Equation when $x = 9$:

7. Expression: _____

Truth Statement: $x = 9$

Equation when $x = 9$:

8. Expression: _____

Truth Statement: $x = 9$

Equation when $x = 9$: