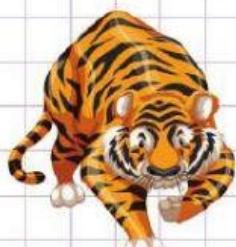


Name: Class:

Write variable expressions: two operations

Write an expression for the sequence of the following operations described below
(do not simplify your answer).

1. **w** times 11, then add **x** to the result.
2. Double **t**, then add 52 to the results
3. Half 10 then divide **t** by the result.
4. Subtract 0 from **p**, then add **q** to the result
5. Multiply 10 by **a**, then raise the result to the 5th power
6. Raise **s** to the 15th power, then triple the results
7. Divide 20 by 27, then subtract **b** from the results



Write variable expressions word problems

- Mary has 30 candies. she gives away t candies. Write an expression for the number of candies Mary has left.
- Rita's new phone has x hours of battery life. Her old Phone has 3 hours battery life less than that of the new phone. Choose the expression that shows the battery life of Rita's old phone.
 $3 - x$ $3 + x$ $x + 3$ $x - 3$
- Yesterday, Tracy bought 16 cupcakes. She divided it equally amongst her x girlfriends. Write an expression for the number of cakes each girlfriend got.
- In Olivia's marble collection, there are w jars of marbles. Each jar has 51 red marbles. Write an expression for the total number of red marbles in w jars of marbles.

Identify equivalent expressions II

1. Tick all the expressions that are equivalent to $10(2x)$

$20x$

$12x$

$2(10x)$

$10(x+x)$

2. Tick all the expressions that are equivalent to $15t - 6t$

$21t^2$

$9t$

$15t$

$9t$

3. Tick all the expressions that are equivalent to $3u + 6u$

$u + 9$

9

$7u + (3u) + 5u$

$2u$

4. Tick all the expressions that are equivalent to $21a / 7$

$3a$

$3 \cdot a$

3^a

a^3

5. Tick all the expressions that are equivalent to $3(4v)$

$12v$

$2.6v$

$v(3.4)$

$3(2v + 2v)$

6. Tick all the expressions that are equivalent to $11s - 7s$

$18s$

$10s - 6s$

$4s$

$11s + (-5s) - 2s$

7. Tick all the expressions that are equivalent to $7a + 3a$

$7a + (-3a) + 6a$

$10 + a$

$10a$

$10 \cdot a$

8. Tick all the expressions that are equivalent to $8u / 4$

$2u$

2

$2.2u$

$2.u$

