

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

1. Mary has 30 candies. she gives away t candies. Write an expression for the number of candies Mary has left.
2. 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.
☐ $3 - x$ ☐ $3 + x$ ☐ $x + 3$ ☐ $x - 3$
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.
4. 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 $15t - 6t$

- ☐ $21t^2$
☐ $9t$
☐ $15t$
☐ $9.t$

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 $21a / 7$

- ☐ $3a$
☐ $3.a$
☐ 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 $7a + 3a$

- ☐ $7a + (-3a) + 6a$
☐ $10 + a$
☐ $10a$
☐ $10.a$

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

- ☐ $2u$
☐ 2
☐ $2.2u$
☐ $2.u$

