



Name _____ Class _____ Date _____

1 Sandi doesn't know how many red jelly beans are in the bag. She does know there are **100** jelly beans in **total** and there are **twice as many green as red**. The last **10** jelly beans are yellow. Write the **algebraic expression** for this problem.

- A $n + 2n + 10 = 100$
- B $3n + 10 = 100$
- C $100 \div 2n = 20$
- D $100 - 10 = n$

3 If $n = 4$, then $n^3 + n =$ _____

- A 20
- B 36
- C 16
- D 68

$4^3 + 4 =$

2 A truck can carry **twice as many** potatoes as cabbages. If there are a **thousand** vegetables on the truck, how could the **number of potatoes** be calculated?



- A $1,000 \times (n + 2)$
- B $2n - n = 1,000$
- C $2n + n = 1,000$
- D $1,000 - 2n$

4 $6n + (n - 1)$
In this problem, which operation should be done first?

- A add n to $6n$
- B multiply 6 times 6



5

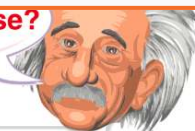


PREVIEW

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7

8 **True or false?**



- C all numbers
- D large numbers



9

If $n = 10$, then $n^2 \div 2 = 10$.

- A true
- B false

Solve using order of operations!



10 Which **algebraic equation** is equal to $n + n + n - 1$?

- A $3n - 1$
- B $n \times n \times n - 1$
- C $n^3 - 1$
- D $n^2 + n - 1$

Solve & Simplify





ANSWER KEY

Sandi doesn't know how many red jelly beans are in the bag. She does know there are **100** jelly beans in **total** and there are **twice as many green as red**. The last **10** jelly beans are yellow. Write the **algebraic expression** for this problem.

(a)

- A** $n + 2n + 10 = 100$ **C** $100 \div 2n = 20$
B $3n * 10 = 100$ **D** $100 - 10 = n$

If $n = 4$, then $n^3 + n =$ _____.

- A** 20
B 36
C 16
D 68

$4^3 + 4 =$



(d)

A truck can carry **twice as many** potatoes as cabbages. If there are a **thousand** vegetables on the truck, how could the **number of potatoes** be calculated?



(c)

- A** $1,000 \times (n + 2)$ **C** $2n + n = 1,000$
B $2n - n = 1,000$ **D** $1,000 - 2n$

$6n + (n - 1)$

In this problem, which operation should be done first?

- A** add n to $6n$
B multiply 6 times 6
C subtract one from n



(c)



PREVIEW

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If $n = 10$, then $n^2 \div 2 = 10$.

- A** true
B false

Solve using order of operations!



(b)

Which algebraic equation is equal to $n * n + n - 1$?

- A** $3n - 1$
B $n \times n \times n - 1$
C $n^3 - 1$
D $n^2 + n - 1$

Solve & Simplify



(d)