Topic: Identity numbers

Question: Choose the identity number for addition.

Answer choices:

A   1

B   0

C -1

D   2

Solution: B

0 is the identity number for addition, because you can add 0 to anything without changing the identity. For example, $7 + 0 = 7$.

Topic: Identity numbers

Question: Find the sum.

$$25 + 0 =$$

Answer choices:

A 0

B 25

C -25

D 1

Solution: B

0 is the identity number for addition, which means that when you add 0 to something, you don't change the value of the original number. Therefore,

$$25 + 0 = 25$$

25 keeps its identity because 0 is the identity number of addition.

Topic: Identity numbers

Question: Find the product.

$$3 \cdot 1 =$$

Answer choices:

A   3

B   2

C   4

D $\dfrac{1}{3}$

Solution: A

1 is the identity number for multiplication, which means that when you multiply something by 1, you don't change the value of the original number. Therefore,

$$3 \cdot 1 = 3$$

3 keeps its identity because 1 is the identity number of multiplication.