

**Topic:** Radicals**Question:** Simplify the radical expression.

$$\sqrt{100}$$

**Answer choices:**

- A      10
- B      20
- C      -10
- D      25



**Solution: A**

We know that

$$(10)(10) = 100 = (-10)(-10)$$

Remember that  $\sqrt{100}$  means the positive number that when multiplied by itself gives 100, so

$$\sqrt{100} = 10$$



**Topic:** Radicals**Question:** Simplify the radical expression.

$$\sqrt[3]{-64}$$

**Answer choices:**

A      $-8$

B      $4$

C      $-4$

D      $6$



**Solution: C**

We know that

$$(-4)(-4)(-4) = (16)(-4) = -64$$

Because this is a cube root, there's only one number that, when multiplied by itself 3 times, gives  $-64$ . This tells us that

$$\sqrt[3]{-64} = -4$$



**Topic: Radicals**

**Question:** Simplify the radical expression.

$$\sqrt{225}$$

**Answer choices:**

A      15

B      20

C      22

D      25



**Solution: A**

We know that

$$(15)(15) = 225 = (-15)(-15)$$

Remember that  $\sqrt{225}$  means the positive number that when multiplied by itself gives 225, so

$$\sqrt{225} = 15$$

