

$$452.7 \times 10^3 - 2.7 \times 10^5$$

- A) -1.82×10^5
- B) 1.82×10^5
- C) 4.257×10^5
- D) 4.5×10^5

7) Simplify.

$$10^2 \cdot 10^4$$

- A) 10^{-2}
- B) 10^2
- C) 10^6
- D) 10^8

8) What is another way to express 16?

- A) 4^2
- B) 2^3
- C) 4×2
- D) 1^4

9) $(3^2)(3^3)$

- A) 54
- B) 81
- C) 243
- D) 59,049

10)

$$\sqrt{100} - \sqrt{9}$$

Simplify.

- A) 7
- B) $\sqrt{91}$
- C) $\sqrt{109}$
- D) 13


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Number and Operations: Practice Quiz

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1) $\sqrt{40}$ is between which two whole numbers?

- A) 4 and 5
- B) 5 and 6
- C) 6 and 7
- D) 7 and 8

2)

$$\sqrt{324}$$

Simplify.

- A) 17
- B) 18
- C) 19
- D) 20

3) A city has two water towers. One tower holds 7.35×10^5 gallons of water and the other tower holds 9.78×10^5 gallons of water. What is the combined water capacity of the two towers?

- A) 1.713×10^6
- B) 1.713×10^5
- C) 17.13×10^6
- D) 1.713×10^{-5}

4) Identify the product and express it in scientific notation.

$$4.7 \times (6.02 \times 10^{23})$$

- A) 2.83×10^{23}
- B) 2.83×10^{24}
- C) 28.3×10^{23}
- D) 28.3×10^{24}

5) Write 4^5 in expanded form.

- A) $4 \cdot 5$
- B) $5 \cdot 4$
- C) $4 \cdot 4 \cdot 4 \cdot 4$
- D) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$

6) Find the difference and express the answer in scientific notation.