

CA Algebra 1 Standard 2.0

MULTIPLE CHOICE

1. $\sqrt{64} + \sqrt[4]{81} =$

- A. 11
B. 17

- C. 20
D. 41

2. $16^{\frac{1}{2}} - 8^0 =$

- A. 3
B. 4

- C. 7
D. 8

3. Which shows the expression below written with positive exponents?

$$\frac{12a^3b^2}{4a^{-2}b}$$

- A. $8ab$
B. $3ab^3$

- C. $3ab$
D. $3a^5b$

4. What is the reciprocal of $-\frac{4}{7}$?

- A. $-\frac{7}{4}$
B. $\frac{4}{7}$

- C. $\frac{7}{4}$
D. $-1\frac{7}{4}$

5. Which shows the expression below written with positive exponents?

$$(a^2)^3 \cdot a^3$$

- A. a^8
B. a^9

- C. a^{15}
D. a^{18}

6. Which shows the expression below written with positive exponents?

$$\frac{(2p)^{-2}pq}{4^0 \cdot 3pq^2}$$

- A. $\frac{1}{48pq}$

- B. $\frac{p^2}{q}$

- C. $\frac{1}{12p^2q}$

- D. $\frac{-q}{3p^3}$

7. Which shows the expression below written with positive exponents?

$$(5y)^{-2}$$

A. $-10y^2$

B. $\frac{1}{25y^2}$

C. $-25y^2$

D. $\frac{-1}{25y^2}$

8. $-a^0 + 3^3 - \sqrt{81} =$

A. 1

B. 17

C. 19

D. 71

9. Which shows the expression below written with positive exponents?

$$\frac{1}{6x^{-4}y^{-3}z^5}$$

A. $\frac{x^4y^3}{6z^5}$

B. $\frac{1}{6xyz^{-2}}$

C. $6x^4y^3z^5$

D. $\frac{6x^4y^3}{z^5}$

10. Which shows the expression below written with positive exponents?

$$(-3x^4)^2(4y^3)^2$$

A. $-96x^8y^6$

B. $-48x^6y^3$

C. $48x^8y^6$

D. $144x^8y^6$