

CA Grade 7 Standard 7.NS.2.3

MULTIPLE CHOICE

1. $\frac{3^3 \cdot 5^4 \cdot 7^8}{3^4 \cdot 5^3 \cdot 7^8} =$

A. $\frac{7}{15}$

B. $\frac{3}{5}$

C. $\frac{5}{7}$

D. $\frac{5}{3}$

2. $11^8 \cdot 11^3 =$

A. 11^5
B. 11^{11}

C. 11^{24}
D. 121^{11}

3. Which expression below has a product of 285,768?

A. $2^3 \cdot 7^2 \cdot 9^3$
B. $2^2 \cdot 7^2 \cdot 9^3$

C. $6^3 \cdot 49^2 \cdot 81^2$
D. $2^2 \cdot 7^2 \cdot 9^2$

4. $\frac{12^3 \cdot 5^6}{12^3 \cdot 5^7} =$

A. $\frac{1}{12}$

B. $\frac{1}{5}$

C. 1

D. $\frac{12}{5}$

5. When multiplying powers with like bases, what operation should you perform on the exponents?

A. addition
B. subtraction

C. multiplication
D. division

6. $\frac{3^4 \cdot 9^6 \cdot 6^7}{3^3 \cdot 9^6 \cdot 6^8} =$

A. $\frac{1}{6}$

B. $\frac{1}{2}$

C. $\frac{2}{3}$

D. 2

7. Which expression below has the same product as $2^4 \cdot 7^3 \cdot 2 \cdot 25^5 \cdot 7^2$?

A. $2^4 \cdot 5^7 \cdot 7^5$
B. $2^5 \cdot 5^{10} \cdot 7^5$

C. $2^5 \cdot 5^{10} \cdot 7^6$
D. $2^5 \cdot 5^5 \cdot 7^5$

8. $\frac{12^9}{12^{10}} =$

A. 12^{19}
B. 12

C. 1
D. $\frac{1}{12}$

9. When dividing powers with like bases, what should you do with the exponents?

A. add
B. subtract

C. multiply
D. divide

10. $\frac{6^{10} \cdot 3^2}{6^9} =$

A. 6
B. 9

C. 18
D. 54