

Name :

Score : Date :

Multiplying and Dividing Exponents

① $4^5 \times 4^{-3} \times 4^{10}$

② $2^3 \times 2^{-4} \times 2^{-6}$

③ $5^7 \times 5^{-8} \times 5^{10}$

④ $6^7 \times 6^{-2} \times 6^8$

⑤ $9^{-6} \times 9^4 \times 9^4$

⑥ $7^3 \times 7^{-5} \times 7^8$

⑦ $\frac{7^6}{7^3}$

⑧ $\frac{8^4}{8^8}$

⑨ $\frac{4^9}{4^5}$

⑩ $\frac{5^9}{5^4}$

⑪ $\frac{6^7}{6^2}$

⑫ $\frac{9^6}{9^3}$

Name :

Score : Date :

Multiplying and Dividing Exponents

Answers

$$\textcircled{1} 4^5 \times 4^{-3} \times 4^{10}$$

$$= 4^{12}$$

$$\textcircled{2} 2^3 \times 2^{-4} \times 2^{-6}$$

$$= 2^{-7}$$

$$\textcircled{3} 5^7 \times 5^{-8} \times 5^{10}$$

$$= 5^9$$

$$\textcircled{4} 6^7 \times 6^{-2} \times 6^8$$

$$= 6^{13}$$

$$\textcircled{5} 9^{-6} \times 9^4 \times 9^4$$

$$= 9^2$$

$$\textcircled{6} 7^3 \times 7^{-5} \times 7^8$$

$$= 7^6$$

$$\textcircled{7} \frac{7^6}{7^3}$$

$$= 7^3$$

$$\textcircled{8} \frac{8^4}{8^8}$$

$$= 8^{-4}$$

$$\textcircled{9} \frac{4^9}{4^5}$$

$$= 4^4$$

$$\textcircled{10} \frac{5^9}{5^4}$$

$$= 5^5$$

$$\textcircled{11} \frac{6^7}{6^2}$$

$$= 6^5$$

$$\textcircled{12} \frac{9^6}{9^3}$$

$$= 9^3$$