

A.APR.A.1: Multiplication of Powers 1b

- 1 The expression $2^3 \cdot 4^2$ is equivalent to
- 2 Which expression is equivalent to $3^3 \cdot 3^4$?
- 3 The expression $3^2 \cdot 3^3 \cdot 3^4$ is equivalent to
- 4 The product of $3x^5$ and $2x^4$ is
- 5 The product of $2x^3$ and $6x^5$ is
- 6 Which expression represents $(3x^2y^4)(4xy^2)$ in simplest form?
- 7 The product of $4x^2y$ and $2xy^3$ is
- 8 The product of $6x^3y^3$ and $2x^2y$ is
- 9 The expression $(x^2z^3)(xy^2z)$ is equivalent to
- 10 The product of $3x^2y$ and $-4xy^3$ is
- 11 What is the product of $10x^4y^2$ and $3xy^3$?
- 12 What is the product of $3a^2b$ and $-2ab^3$?
- 13 The expression $(-2a^2b^3)(4ab^5)(6a^3b^2)$ is equivalent to
- 14 What is the product of $\frac{1}{3}x^2y$ and $\frac{1}{6}xy^3$?
- 15 The product of $6x^a$ and x is
- 16 If $x = 5^a$, then the value of $5x$ is

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Answer Section

1 ANS:

$$2^7$$

$$2^3 \cdot 4^2 = 2^3 \cdot (2^2)^2 = 2^3 \cdot 2^4 = 2^7$$

REF: 069911a

2 ANS:

$$3^7$$

REF: 011020ia

3 ANS:

$$3^9$$

REF: 060312a

4 ANS:

$$6x^9$$

REF: 010306a

5 ANS:

$$12x^8$$

REF: 080001a

6 ANS:

$$12x^3y^6$$

REF: 080903ia

7 ANS:

$$8x^3y^4$$

REF: 089906a

8 ANS:

$$12x^5y^4$$

REF: 061401ia

9 ANS:

$$x^3y^2z^4$$

REF: 010008a

10 ANS:

$$-12x^3y^4$$

REF: 010205a

11 ANS:

$$30x^5y^5$$

REF: 080605a

12 ANS:

$$-6a^3b^4$$

REF: 081401ia

13 ANS:

$$-48a^6b^{10}$$

REF: 010910a

14 ANS:

$$\frac{1}{18}x^3y^4$$

REF: 060604a

15 ANS:

$$6x^{a+1}$$

REF: 060328siii

16 ANS:

$$5^{a+1}$$

REF: 018926siii