

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Simplify.

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|----------------------------|------------------|-------------------------|-------------------------|-----------------------|----------|
| 1) $(-2a)^3$ | A) $-8a$ | B) $-8a^3$ | C) $-6a$ | D) $-6a^3$ | 1) _____ |
| 2) $(5xy)^4(2x^7y^7)^2$ | A) $10x^8y^{18}$ | B) $10x^{18}y^{18}$ | C) $2500x^{18}y^{18}$ | D) $2500x^{13}y^{13}$ | 2) _____ |
| 3) $(4x)(2x^4)^4$ | A) $64x^{17}$ | B) $64x^8$ | C) $64x^{16}$ | D) $8x^{17}$ | 3) _____ |
| 4) $(-3x)(4x^4)^2$ | A) $-48x^9$ | B) $-48x^6$ | C) $-12x^9$ | D) $-48x^8$ | 4) _____ |
| 5) $(-4x^4y^6z)^3$ | A) $-64x^4y^6z$ | B) $-12x^{13}y^{19}z^4$ | C) $-64x^{12}y^{18}z^3$ | D) $64x^7y^9z$ | 5) _____ |
| 6) $(y^2)^8 \cdot (y^5)^4$ | A) y^{72} | B) y^{90} | C) y^{42} | D) y^{36} | 6) _____ |
| 7) $(x^8)^8$ | A) $8x^8$ | B) x^{16} | C) x^{64} | D) $8x^{64}$ | 7) _____ |

Multiply.

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|---------------------------|------------------|------------------|-------------------|-------------------|-----------|
| 8) $(-2x^6y)(-10x^5y^2)$ | A) $20x^{30}y^2$ | B) $20x^{11}y^3$ | C) $-20x^{11}y^3$ | D) $-20x^{11}y^2$ | 8) _____ |
| 9) $y^6 \cdot y^5$ | A) y^{11} | B) y^{30} | C) $2y^{30}$ | D) $2y^{11}$ | 9) _____ |
| 10) $(3p^6) \cdot (7p^5)$ | A) $21p^{30}$ | B) $-21p^{11}$ | C) $-21p^{30}$ | D) $21p^{11}$ | 10) _____ |
| 11) $-4r \cdot 2r$ | A) $-8r$ | B) $-8r^2$ | C) $-16r^2$ | D) $-16r$ | 11) _____ |
| 12) $x \cdot x^{11}$ | A) $2x^{11}$ | B) x^{12} | C) $2x^{12}$ | D) x^{11} | 12) _____ |

Answer Key

Testname: EXPONENTS

- 1) B
- 2) C
- 3) A
- 4) A
- 5) C
- 6) D
- 7) C
- 8) B
- 9) A
- 10) D
- 11) B
- 12) B