

Name: _____

Score: _____

Expanded and Exponent Form

(A) Rewrite each exponent form in expanded form:

1) $(-10)^2$ = _____	2) $(-12)^3$ = _____
3) 15^3 = _____	4) 11^4 = _____
5) 6^4 = _____	6) 8^8 = _____
7) 7^{10} = _____	8) $(-8)^5$ = _____
9) $(-4)^3$ = _____	10) $(-5)^5$ = _____

(B) Rewrite each expanded form in exponent form:

1) 12×12 = _____	2) $(-11) \times (-11) \times (-11) \times (-11)$ = _____
3) $(-2) \times (-2)$ = _____	4) $14 \times 14 \times 14 \times 14 \times 14 \times 14 \times 14$ = _____
5) $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ = _____	6) $(-6) \times (-6) \times (-6) \times (-6)$ = _____
7) $(-7) \times (-7) \times (-7)$ = _____	8) $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$ = _____
9) $9 \times 9 \times 9 \times 9 \times 9$ = _____	10) $(-14) \times (-14) \times (-14) \times (-14)$ = _____

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Answers

(A) Rewrite each exponent form in expanded form:

1) $(-10)^2$ $= (-10) \times (-10)$	2) $(-12)^3$ $= (-12) \times (-12) \times (-12)$
3) 15^3 $= 15 \times 15 \times 15$	4) 11^4 $= 11 \times 11 \times 11 \times 11$
5) 6^4 $= 6 \times 6 \times 6 \times 6$	6) 8^8 $= 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$
7) 7^{10} $= 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7$	8) $(-8)^5$ $= (-8) \times (-8) \times (-8) \times (-8) \times (-8)$
9) $(-4)^3$ $= (-4) \times (-4) \times (-4)$	10) $(-5)^5$ $= (-5) \times (-5) \times (-5) \times (-5) \times (-5)$

(B) Rewrite each expanded form in exponent form:

1) 12×12 $= 12^2$	2) $(-11) \times (-11) \times (-11) \times (-11)$ $= (-11)^4$
3) $(-2) \times (-2)$ $= (-2)^2$	4) $14 \times 14 \times 14 \times 14 \times 14 \times 14 \times 14$ $= 14^7$
5) $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ $= 2^9$	6) $(-6) \times (-6) \times (-6) \times (-6)$ $= (-6)^4$
7) $(-7) \times (-7) \times (-7)$ $= (-7)^3$	8) $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$ $= 3^7$
9) $9 \times 9 \times 9 \times 9 \times 9$ $= 9^5$	10) $(-14) \times (-14) \times (-14) \times (-14)$ $= (-14)^4$