

Name: _____

Score: _____

Base and Exponent

Identify the base and exponent.

1) w^{-9} Base = _____ Exponent = _____	2) g^3 Base = _____ Exponent = _____	3) h^{-5} Base = _____ Exponent = _____
4) s^6 Base = _____ Exponent = _____	5) z^4 Base = _____ Exponent = _____	6) x^{-5} Base = _____ Exponent = _____
7) m^{-1} Base = _____ Exponent = _____	8) r^{-3} Base = _____ Exponent = _____	9) q^{-4} Base = _____ Exponent = _____
10) v^{-6} Base = _____ Exponent = _____	11) k^9 Base = _____ Exponent = _____	12) c^2 Base = _____ Exponent = _____
13) l^8 Base = _____ Exponent = _____	14) u^{-7} Base = _____ Exponent = _____	15) y^{-8} Base = _____ Exponent = _____
16) t^{-2} Base = _____ Exponent = _____	17) n^0 Base = _____ Exponent = _____	18) a^7 Base = _____ Exponent = _____
19) b^5 Base = _____ Exponent = _____	20) p^1 Base = _____ Exponent = _____	21) d^4 Base = _____ Exponent = _____

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Expanded and Exponent Form

(A) Rewrite each exponent form in expanded form:

1) $(8.1)^6$ = _____	2) $(-14)^4$ = _____
3) $\left(-\frac{5}{8}\right)^5$ = _____	4) $\left(\frac{6}{7}\right)^4$ = _____
5) $\left(\frac{4}{9}\right)^6$ = _____	6) 7^6 = _____
7) $(0.6)^6$ = _____	8) $\left(-\frac{1}{5}\right)^4$ = _____

(B) Rewrite each expanded form in exponent form:

1) $4.5 \times 4.5 \times 4.5 \times 4.5 \times 4.5 \times 4.5 \times 4.5$ = _____	2) $\left(-\frac{9}{4}\right) \times \left(-\frac{9}{4}\right) \times \left(-\frac{9}{4}\right) \times \left(-\frac{9}{4}\right) \times \left(-\frac{9}{4}\right)$ = _____
3) $\frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \times \frac{2}{7} \times \frac{2}{7}$ = _____	4) $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$ = _____
5) $0.2 \times 0.2 \times 0.2 \times 0.2 \times 0.2 \times 0.2$ = _____	6) $\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$ = _____
7) $(-11) \times (-11) \times (-11) \times (-11)$ = _____	8) $\left(-\frac{8}{5}\right) \times \left(-\frac{8}{5}\right) \times \left(-\frac{8}{5}\right) \times \left(-\frac{8}{5}\right)$ = _____

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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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Exponents

(A) Rewrite in expanded form:

1) $(-5)^4$

= _____

2) 16^4

= _____

3) $(-9)^3$

= _____

4) 21^3

= _____

(B) Rewrite in exponent form:

1) $(-19) \times (-19) \times (-19)$

= _____

2) $4 \times 4 \times 4 \times 4 \times 4$

= _____

3) $(-2) \times (-2) \times (-2) \times (-2)$

= _____

4) $11 \times 11 \times 11 \times 11 \times 11 \times 11$

= _____

(C) Rewrite in standard form:

1) $(-15)^2$

= _____

2) $(-2)^7$

= _____

3) 3^5

= _____

4) 8^3

= _____

5) $(-6)^4$

= _____

6) 11^3

= _____

7) 14^2

= _____

8) $(-12)^2$

= _____

9) $(-9)^3$

= _____

10) 5^4

= _____