

Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Expanded and Exponent Form**

(A) Rewrite each exponent form in expanded form:

|                        |                          |
|------------------------|--------------------------|
| 1) $12^5$<br>= _____   | 2) $(-9)^5$<br>= _____   |
| 3) $(-7)^4$<br>= _____ | 4) $14^6$<br>= _____     |
| 5) $(-2)^4$<br>= _____ | 6) $(-11)^3$<br>= _____  |
| 7) $2^{10}$<br>= _____ | 8) $5^5$<br>= _____      |
| 9) $3^4$<br>= _____    | 10) $(-13)^2$<br>= _____ |

(B) Rewrite each expanded form in exponent form:

|   |  |
|---|--|
| 1) $(-15) \times (-15) \times (-15) \times (-15)$<br>= _____            | 2) $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$<br>= _____   |
| 3) $(-3) \times (-3) \times (-3) \times (-3) \times (-3)$<br>= _____    | 4) $7 \times 7 \times 7 \times 7 \times 7 \times 7$<br>= _____                   |
| 5) $(-5) \times (-5) \times (-5)$<br>= _____                            | 6) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$<br>= _____ |
| 7) $(-1) \times (-1) \times (-1) \times (-1) \times (-1)$<br>= _____    | 8) $(-9) \times (-9)$<br>= _____   |
| 9) $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$<br>= _____ | 10) $11 \times 11 \times 11$<br>= _____  |

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**Answers**

(A) Rewrite each exponent form in expanded form:

|   |   |
|---|---|
| 1) $12^5$<br>$= 12 \times 12 \times 12 \times 12 \times 12$   | 2) $(-9)^5$<br>$= (-9) \times (-9) \times (-9) \times (-9) \times (-9)$ |
| 3) $(-7)^4$<br>$= (-7) \times (-7) \times (-7) \times (-7)$   | 4) $14^6$<br>$= 14 \times 14 \times 14 \times 14 \times 14 \times 14$   |
| 5) $(-2)^4$<br>$= (-2) \times (-2) \times (-2) \times (-2)$   | 6) $(-11)^3$<br>$= (-11) \times (-11) \times (-11)$                     |
| 7) $2^{10}$<br>$= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ | 8) $5^5$<br>$= 5 \times 5 \times 5 \times 5 \times 5$                   |
| 9) $3^4$<br>$= 3 \times 3 \times 3 \times 3$  | 10) $(-13)^2$<br>$= (-13) \times (-13)$                                 |

(B) Rewrite each expanded form in exponent form:

|   |   |
|---|---|
| 1) $(-15) \times (-15) \times (-15) \times (-15)$<br>$= (-15)^4$        | 2) $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$<br>$= 10^7$           |
| 3) $(-3) \times (-3) \times (-3) \times (-3) \times (-3)$<br>$= (-3)^5$ | 4) $7 \times 7 \times 7 \times 7 \times 7 \times 7$<br>$= 7^6$                            |
| 5) $(-5) \times (-5) \times (-5)$<br>$= (-5)^3$                         | 6) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$<br>$= 4^9$ |
| 7) $(-1) \times (-1) \times (-1) \times (-1) \times (-1)$<br>$= (-1)^5$ | 8) $(-9) \times (-9)$<br>$= (-9)^2$   |
| 9) $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$<br>$= 6^7$ | 10) $11 \times 11 \times 11$<br>$= 11^3$  |