

Name: _____

Score: _____

Exponents

(A) Rewrite in expanded form:

1) 23^7

= _____

2) 3^8

= _____

3) 5^9

= _____

4) 18^6

= _____

(B) Rewrite in exponent form:

1) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

= _____

2) $22 \times 22 \times 22 \times 22 \times 22 \times 22$

= _____

3) $9 \times 9 \times 9 \times 9$

= _____

4) $17 \times 17 \times 17 \times 17 \times 17$

= _____

(C) Rewrite in standard form:

1) 2^{10}

= _____

2) 11^3

= _____

3) 4^4

= _____

4) 13^2

= _____

5) 5^4

= _____

6) 9^3

= _____

7) 8^3

= _____

8) 15^2

= _____

9) 1^9

= _____

10) 6^4

= _____

Name: _____

Score: _____

Answers

(A) Rewrite in expanded form:

1) 23^7

= $23 \times 23 \times 23 \times 23 \times 23 \times 23 \times 23$

2) 3^8

= $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$

3) 5^9

= $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$

4) 18^6

= $18 \times 18 \times 18 \times 18 \times 18 \times 18$

(B) Rewrite in exponent form:

1) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

= 4^7

2) $22 \times 22 \times 22 \times 22 \times 22 \times 22$

= 22^6

3) $9 \times 9 \times 9 \times 9$

= 9^4

4) $17 \times 17 \times 17 \times 17 \times 17$

= 17^5

(C) Rewrite in standard form:

1) 2^{10}

= 1024

2) 11^3

= 1331

3) 4^4

= 256

4) 13^2

= 169

5) 5^4

= 625

6) 9^3

= 729

7) 8^3

= 512

8) 15^2

= 225

9) 1^9

= 1

10) 6^4

= 1296