

Exponents Review

Name: _____ Score: _____

(1) Write in exponent form

$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$10 \times 10 \times 10 \times 10 \times 10 \times 10$

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

$4 \times 4 \times 4 \times 4$

$6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$

$8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$

(2) Write in expanded form

12^7

3^6

10^5

2^8

4^5

7^4

(3) Write in standard form

3^5

5^5

6^7

11^4

2^8

10^4

8^4

3^4

5^6

12^3

10^3

2^{12}

Answers

(1) Write in exponent form

$$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$2^8$$

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

$$3^6$$

$$6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$$

$$6^7$$

$$10 \times 10 \times 10 \times 10 \times 10 \times 10$$

$$10^6$$

$$4 \times 4 \times 4 \times 4$$

$$4^4$$

$$8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$$

$$8^7$$

(2) Write in expanded form

$$12^7$$

$$12 \times 12 \times 12 \times 12 \times 12 \times 12 \times 12$$

$$10^5$$

$$10 \times 10 \times 10 \times 10 \times 10$$

$$4^5$$

$$4 \times 4 \times 4 \times 4 \times 4$$

$$3^6$$

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

$$2^8$$

$$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$7^4$$

$$7 \times 7 \times 7 \times 7$$

(3) Write in standard form

$$3^5$$

$$243$$

$$2^8$$

$$256$$

$$5^6$$

$$15,625$$

$$5^5$$

$$3,125$$

$$10^4$$

$$10,000$$

$$12^3$$

$$1,728$$

$$6^7$$

$$279,936$$

$$8^4$$

$$4,096$$

$$10^3$$

$$1,000$$

$$11^4$$

$$14,641$$

$$3^4$$

$$81$$

$$2^{12}$$

$$4,096$$