



Section 2.1 & 2.2

PRACTICE TIME

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7ace, 8ace, 9, 13, 14, 16

and

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4ab, 5abcd, 8acef, 9, 10, 13

7. Write the base of each power.

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7ace, 8ace, 9, 13, 14, 16

a) 2^7

c) 8^2

e) $(-6)^7$

8. Write the exponent of each power.

a) 2^5

c) 9^1

e) $(-2)^9$

9. Write each power as repeated multiplication.

a) 3^2

c) 8^5

e) -6^5

b) 10^4

d) $(-6)^5$

f) -4^2

13. Write each product as a power, then evaluate.

a) 5×5

b) $3 \times 3 \times 3 \times 3$

c) $10 \times 10 \times 10 \times 10 \times 10$

d) $-(9 \times 9 \times 9)$

e) $(-2)(-2)(-2)$

f) $-(-4)(-4)(-4)$

h) $-(5)(5)(5)(5)$

g) $(-5)(-5)(-5)(-5)$

14. Predict whether each answer is positive or negative, then evaluate.

a) 2^3

b) 10^6

c) 3^1

d) -7^3

e) $(-7)^3$

f) $(-2)^8$

g) -2^8

h) -6^4

i) $(-6)^4$

j) $-(-6)^4$

k) $(-5)^3$

l) -4^4

16. Evaluate.

a) 3^{12}

b) -7^7

c) 5^{11}

d) $-(-4)^{10}$

e) $(-9)^8$

f) 2^{23}

4. Evaluate each power.

a) 50^0

b) 9^0

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4ab, 5abcd, 8acef, 9, 10, 13

5. Evaluate each power.

a) $(-6)^0$

b) -11^0

c) -8^0

d) $(-24)^0$

8. Evaluate each power of 10.

a) 10^7

c) 10^0

e) 10^1

f) 10^6

9. Use powers of 10 to write each number.

a) 6 000 000 000

b) 200

c) 51 415

d) 60 702 008

e) 302 411

f) 2 000 008

10. Write each number in standard form.

a) 7×10^7

b) $(3 \times 10^4) + (9 \times 10^3) + (5 \times 10^1)$
 $+ (7 \times 10^0)$

c) $(8 \times 10^8) + (5 \times 10^5) + (2 \times 10^2)$

d) $(9 \times 10^{10}) + (8 \times 10^9) + (1 \times 10^0)$

e) 1×10^{15}

f) $(4 \times 10^3) + (1 \times 10^0) + (9 \times 10^5)$
 $+ (3 \times 10^1)$

13. In each pair, which number is greater?

How do you know?

a) $(4 \times 10^3) + (6 \times 10^2) + (6 \times 10^1)$
 $+ (7 \times 10^0)$ or 4327

b) $(2 \times 10^4) + (4 \times 10^3) + (2 \times 10^2)$
 $+ (4 \times 10^1)$ or 2432

c) $(7 \times 10^7) + (7 \times 10^3)$ or 777 777