

7. Write the base of each power.

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

11. Use repeated multiplication to show why 6^4 is not the same as 4^6 .

12. Write as a power.

a) $4 \times 4 \times 4 \times 4$

b) $2 \times 2 \times 2$

c) $5 \times 5 \times 5 \times 5 \times 5 \times 5$

d) $10 \times 10 \times 10$

e) $(-79)(-79)$

f) $-(-2)(-2)(-2)(-2)(-2)(-2)(-2)(-2)$

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

15. Canada Post often creates special postage stamps to celebrate important events and honour famous people.



- a) Captain George Vancouver was a Dutch explorer who named almost 400 Canadian places. To commemorate his 250th birthday in 2007, Canada Post created a \$1.55 stamp.
- b) In July 2007, Canada hosted the FIFA U-20 World Cup Soccer Championships. Canada Post issued a 52¢ stamp to honour all the players and fans.

i) How many stamps are in a 3 by 3 block? Write the number of stamps as a power.

ii) What is the value of these stamps?

i) How many stamps are in a 4 by 4 block? Write the number of stamps as a power.

ii) What is the value of these stamps?

16. Evaluate.

a) 3^{12}

b) -7^7

c) 5^{11}

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

e) $(-9)^8$

f) 2^{23}