

Name _____ Date _____

Exponents

Write each of the following using exponents.

- 1) $8 \times 8 \times 8 \times 8$ 2) 9×9 3) $5 \times 5 \times 5 \times 5 \times 5$ 4) $6 \times 6 \times 6 \times 6$ 5) $2 \times 2 \times 2$

Write each of the following in expanded form.

- 6) 8^5 7) 4^3 8) 3^4 9) 9^2 10) 2^5

Order Of Operations

Write the correct letter in each blank. The value should match up with the proper expression.

11) $5 \times (9 + 3)$ _____ A 110

12) $25 - 4 \times 5 + 9$ _____ B 18

13) $100 + 25 \div 5 \times 2$ _____ C 14

14) $12 - 6 + 8 + 3 - 4$ _____ D 60

15) $18 - 12 \div 3 + 4$ _____ E 100

16) $(45 \div 9 \times 2)^2$ _____ F 13

17) $6 + 4^3$ _____ G 70

Solve the following.

18) $4 \times 9 + 12 - 4^2$

19) $3^3 - 3^2 =$

20) $12 \times 6 - 4 + 2$

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2) 9×9

3) $5 \times 5 \times 5 \times 5 \times 5$

4) $6 \times 6 \times 6 \times 6$

5) $2 \times 2 \times 2$

8^4

9^2

5^5

6^4

2^3

Write each of the following in expanded form.

6) 8^5

7) 4^3

8) 3^4

9) 9^2

10) 2^5

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

$4 \times 4 \times 4$

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

9×9

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

Order Of Operations

Write the correct letter in each blank. The value should match up with the proper expression.

11) $5 \times (9 + 3)$

 D

A 110

12) $25 - 4 \times 5 + 9$

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E 100

16) $(45 \div 9 \times 2)^2$

 E

F 13

17) $6 + 4^3$

 G

G 70

Solve the following.

18) $4 \times 9 + 12 - 4^2$

 32

19) $3^3 - 3^2 =$

 18

20) $12 \times 6 - 4 + 2$

 70