

Evaluate each expression.

1.  $9^2$

2.  $4^4$

3.  $3^5$

4.  $30 - 14 \div 2$

5.  $5 \cdot 5 - 1 \cdot 5$

6.  $(2 + 5)^4$

7.  $[8(2) - 4^2] + 7(4)$

8.  $\frac{11 - 8}{1 + 7 \cdot 2}$

9.  $\frac{(4 \cdot 3)^2}{9 + 3}$

15.  $7^2$

16.  $14^3$

17.  $2^6$

18.  $35 - 3 \cdot 8$

19.  $18 \div 9 + 2 \cdot 6$

20.  $10 + 8^3 \div 16$

21.  $24 \div 6 + 2^3 \cdot 4$

22.  $(11 \cdot 7) - 9 \cdot 8$

23.  $29 - 3(9 - 4)$

27.  $[(6^3 - 9) \div 23]4$

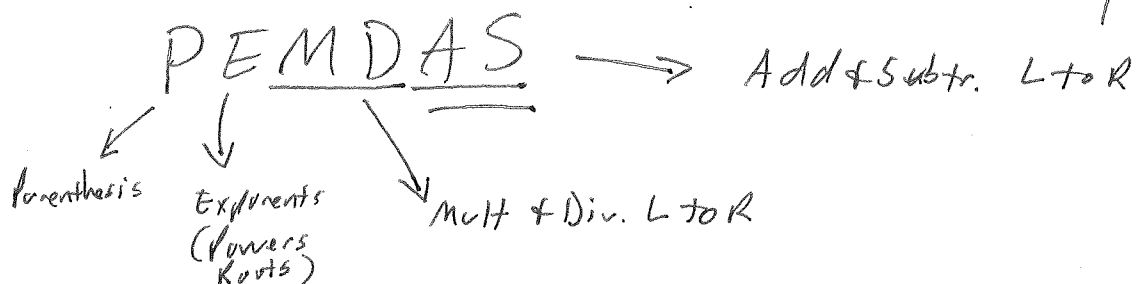
28.  $\frac{8 + 3^3}{12 - 7}$

29.  $\frac{(1 + 6)^9}{5^2 - 4}$

24.  $(12 - 6) \cdot 5^2$

25.  $3^5 - (1 + 10^2)$

26.  $108 \div [3(9 + 3^2)]$

PEMDAS

Evaluate each expression.

1.  $9^2$   
81

2.  $4^4$   
256

3.  $3^5$   
243

4.  $30 - 14 \div 2$   
 $30 - 7$   
23

5.  $5 \cdot 5 - 1 \cdot 3$   
 $25 - 3$   
22

6.  $(2+5)4$   
 $7 \cdot 4$   
28

7.  $[8(2) - 4^2] + 7(4)$   
 $[16 - 16] + 28$   
 $0 + 28$   
28

8.  $\frac{11-8}{1+7 \cdot 2} = \frac{3}{1+14} = \frac{3}{15} = \frac{1}{5}$

9.  $\frac{(4 \cdot 3)^2}{9+3} = \frac{12^2}{12} = \frac{144}{12} = 12$

15.  $7^2$   
49

16.  $14^3$   
2744

17.  $2^6$   
64

18.  $35 - 3 \cdot 8$   
 $35 - 24$   
11

19.  $18 \div 9 + 2 \cdot 6$   
 $2 + 12$   
14

20.  $10 + 8^3 \div 16$   
 $10 + 512 \div 16$   
 $10 + 32 = 42$

21.  $24 \div 6 + 2^3 \cdot 4$   
 $4 + 8 \cdot 4$   
 $4 + 32$   
36

22.  $(11 \cdot 7) - 9 \cdot 8$   
 $77 - 72$   
5

23.  $29 - 3(9 - 4)$   
 $29 - 3(5)$   
 $29 - 15$   
14

27.  $[(6^3 - 9) \div 23]4$   
 $[(216 - 9) \div 23]4$   
 $[207 \div 23]4$   
 $9 \cdot 4$   
36

28.  $\frac{8+3^3}{12-7} = \frac{8+27}{5} = \frac{35}{5} = 7$

29.  $\frac{(1+6)^9}{5^2-4} = \frac{7 \cdot 9}{25-4} = \frac{63}{21} = 3$

24.  $(12 - 6) \cdot 5^2$   
 $(6) \cdot 25$   
150

25.  $3^5 - (1 + 10^2)$   
 $243 - (1 + 100)$   
 $243 - 101$   
142

26.  $108 \div [3(9 + 3^2)]$   
 $108 \div [3(9 + 9)]$   
 $108 \div [3(18)]$   
 $108 \div 54 = 2$