

Name _____

Date _____



USING PARENTHESES & EXPONENTS SHEET 5:1

Remember to use PEMDAS - Parentheses first, then Exponents!

1) $(2^3 + 1) \times 2 = \underline{\quad} \times 2 = \underline{\quad}$

2) $3 + (5 + 4^2) = 3 + \underline{\quad} = \underline{\quad}$

3) $(15 - 3^2) \div 2 = \underline{\quad} \div 2 = \underline{\quad}$

4) $50 - (7^2 - 10) = 50 - \underline{\quad} = \underline{\quad}$

5) $20 \times (3^2 - 7) = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

6) $(3^2 - 2^3) \times 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

7) $6 + (3 \times 1^3) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

8) $24 \div (4^2 - 2^3) = \underline{\quad} \div \underline{\quad} = \underline{\quad}$

9) $(2 - 3^2) \times 2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

10) $3^2 \times (4^2 - 10) = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

11) $7^2 - (6^2 + 2^3) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

12) $10^2 \div (5^2 - 5) = \underline{\quad} \div \underline{\quad} = \underline{\quad}$

13) $3^3 - (2^2 + 4^2) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

14) $9^2 - (2^3 \times 10) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

Use a calculator to work these complex calculations out.

13) $(12^2 - 10^2) \times 4^2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

14) $9^2 \times (5^3 - 10^2) = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

15) $10^3 - (9^2 \times 2^3) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

16) $(8^2 - 4^2) \div 2^3 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$

17) $(9^3 + 1) \div (8^2 + 3^2) = \underline{\quad} \div \underline{\quad} = \underline{\quad}$

17) $3^2 \times (4^3 - 5^2) = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Use a calculator to work out the value of these 3 equations, and put them in order, from smallest to largest.

$6^3 - (5^2 \times 2^3)$

$(10^3 \div 5^2) - (5^2 \times 2)$

$(15^2 - 10^2) \div 5$

 Smallest

 Largest


Free Math Sheets, Math Games and Math Help

MATH-SALAMANDERS.COM



USING PARENTHESES & EXPONENTS SHEET 5:1 ANSWERS

$$1) (2^3 + 1) \times 2 = 9 \times 2 = 18$$

$$2) 3 + (5 + 4^2) = 3 + 21 = 24$$

$$3) (15 - 3^2) \div 2 = 6 \div 2 = 3$$

$$4) 50 - (7^2 - 10) = 50 - 39 = 11$$

$$5) 20 \times (3^2 - 7) = 20 \times 2 = 40$$

$$6) (3^2 - 2^3) \times 3 = 1 \times 3 = 3$$

$$7) 6 + (3 \times 1^3) = 6 + 3 = 9$$

$$8) 24 \div (4^2 - 2^3) = 24 \div 8 = 3$$

$$9) (2 - 3^2) \times 2 = -7 \times 2 = -14$$

$$10) 3^2 \times (4^2 - 10) = 9 \times 6 = 54$$

$$11) 7^2 - (6^2 + 2^3) = 49 - 44 = 5$$

$$12) 10^2 \div (5^2 - 5) = 100 \div 20 = 5$$

$$13) 3^3 - (2^2 + 4^2) = 27 - 20 = 7$$

$$14) 9^2 - (2^3 \times 10) = 81 - 80 = 1$$

Use a calculator to work these complex calculations out.

$$13) (12^2 - 10^2) \times 4^2 = 44 \times 16 = 704$$

$$14) 9^2 \times (5^3 - 10^2) = 81 \times 25 = 2025$$

$$15) 10^3 - (9^2 \times 2^3) = 1000 - 648 = 352$$

$$16) (8^2 - 4^2) \div 2^3 = 48 \div 8 = 6$$

$$17) (9^3 + 1) \div (8^2 + 3^2) = 730 \div 73 = 10$$

$$17) 3^2 \times (4^3 - 5^2) = 9 \times 39 = 351$$

Use a calculator to work out the value of these 3 equations, and put them in order, from smallest to largest.

$$(15^2 - 10^2) \div 5$$

$$6^3 - (5^2 \times 2^3)$$

$$(10^3 \div 5^2) - (5^2 \times 2)$$

$$= (225 - 100) \div 5 = 25$$

$$= 216 - (25 \times 8) = 16$$

$$= (1000 \div 25) - (25 \times 2) = -10$$

$$\underline{(10^3 \div 5^2) - (5^2 \times 2)}$$

Smallest

$$\underline{6^3 - (5^2 \times 2^3)}$$

$$\underline{(15^2 - 10^2) \div 5}$$

Largest

