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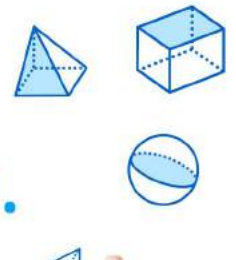

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Order Of Operations With Exponents Worksheets

1) Put the correct operator (+, –, ×, ÷) in order to obtain the desired answer.
24 __8__ __ (15__ 3) = 8

2) State whether true or false:
$(2^2 \div 4) \times 2$ is equal to $2^2 \div (4 \times 2)$.

3) Match the expressions in column A with their results in column B:

Expression	Result
1. ÷	a. 6
2. 2 × (- 1)	b. 4
3. (27 -) + 8	c. 1
4. 1 × (÷ 9)	d. 8

4) Solve the following expression:

5) Fill in the blanks.

6) Prove that: $[(2^2 \times 3^2) \div 4] = 9$

7) Which of the following expressions has value equal to 24.
   a) $5^2 - 12 \div 3 \times 2^2$
   b) $4^2 + (4 - 3)^2$
   c) $(2^3 + 5 \times 2) + 6$
   d) $(14 - 10)^2 \times 6$

8) What is the first step in simplifying the expression below?
   $4 \div 8 \times (6 + 2) \times 4 + 2$
   a) Addition
   b) Multiplication
   c) Parentheses
   d) Division

9) A certain number is multiplied by 10, and 15 is taken from the product. Finally, the difference is divided by 7. The quotient is squared resulting in 25. Find the initial number.

10) Simplify: $[(26 + 4^2) - (6^2 - 2)] + 7$

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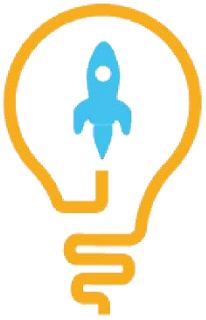
ANSWERS



1)	×, ÷, +, ÷
2)	False
3)	1--b; 2--a; 3--d; 4--c
4)	50
5)	32, 9, 23
6)	L.H.S. = R.H.S.
7)	c)
8)	c)
9)	5
10)	15

FUN FACT

1. Order of operations was first introduced inthe 1800s.

2. PEMDAS is actually the abbreviated form of parentheses, exponents, multiplication, division, addition, and subtraction, introsucted in the 1600s!

3. An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".