The Order of Operations Exit Quiz

Multiple Choice

1. What is the value of the expression $2^3 * 3 - 4 + 1$?

   a.) **15**   b.) **21**

   c.) **25**   d.) **24**

2. What is the value of the expression $150 * 3 - 4 + (23 * 3 - 8^2)^2$?

   a.) **471**   b.) **459**

   c.) **554**   d.) **240**

Find the value of numerical expression. Follow the order of operations when finding each value.

3. $100 \div 5 - 4 * 3 + (3 * 3 - 2^2)^2$

4. $[(343 \div 7^2) + 7 * 10]^2 - (216 \div 6^2 - 1) =$

5. Solve the following problem

Colin has $2,000 and he invested in stock. In one day, his money was doubled. The next day he got a profit of $1,000 and later loss of $456. Write an expression for this and determine his present amount.

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<mark>ANSWERS</mark>

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    a.) 15   <mark>b.) 21</mark>

    c.) 25   d.) 24

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    c.) 554   d.) 240

Find the value of numerical expression. Follow the order of operations when finding each value.

3. $100 \div 5 - 4 * 3 + (3 * 3 - 2^2)^2$

    $100 \div 5 - 4 * 3 + (3 * 3 - 2^2)^2 =$
    $= 20 - 12 + (3 * 3 - 4)^2 =$
    $= 20 - 12 + (9 - 4)^2 =$
    $= 20 - 12 + 5^2 =$
    $= 20 - 12 + 25 =$
    $= 8 + 25 =$
    $= \text{<mark>33</mark>}$

4. $[(343 \div 7^2) + 7 * 10]^2 - (216 \div 6^2 - 1) =$

    $[(343 \div 7^2) + 7 * 10]^2 - (216 \div 6^2 - 1) =$
    $= [(343 \div 49) + 7 * 10]^2 - (216 \div 36 - 1) =$
    $= [7 + 70]^2 - (6 - 1) =$
    $= 77^2 - 5 =$
    $= 5,929 - 5 =$
    $= \text{<mark>5,924</mark>}$

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$$2,000 * 2 + 1,000 - 456 =$$
$$= 4,000 + 1,000 - 456 =$$
$$= 5,000 - 456 =$$
$$= 4,544$$

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