Grade 8 Math **Order of Operations Worksheet 2**

Name: _____

Remember that we do the work as you see it unless it has different kinds of operations and then we have to look at the ORDER in which we do the OPERATIONS. We use the for BEDMAS or PEDMAS (Some countries)

Try the following – remember to show all steps.

1. $28 - (3^2 \times 6) \div 2$ - 4 steps

2. $7 - ((15 \div 3) + \sqrt{16} + -2^4)^{1/2}$ - 7 Steps

3. $1/4 \times 16 - (99 \div 11 - 8)$ - 4 steps

4. $(19 - \sqrt{16} + 1/3 \div 1/3)^{1/2}$ - 6 steps

Continue to Solve:

5. $(6 - 85 \div 5 + 6) \times -1$ - 4 steps

6. $(17 - 1 + 4) \div 10 \times 39 \div 13$ - 5 steps

7. $(1 + (66 - 9^2)) \times (-32 \div -8^2)$ - 6 steps

8. $((\sqrt{1} \times \sqrt{36}) \div (27 \div 9))^3$ - 5 steps

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Remember that we do the work as you see it unless it has different kinds of operations and then we have to look at the ORDER in which we do the OPERATIONS. We use the for BEDMAS or PEDMAS (Some countries)

Try the following – remember to show all steps.

O - represents the steps and where mark will be given

1. $28 - (3^2 \times 6) \div 2$ - 4 steps

$= 28 - (9) \times 6 \div 2$

$= 28 - (54) \div 2$

$= 28 - (27)$

$= (1)$

2. $7 - ((15 \div 3) + \sqrt{16} + -2^4)^{1/2}$ - 7 Steps

$= 7 - ((5) + (4) + (\pm 16))^{\frac{1}{2}}$

$= 7 - ((9) + 16)^{\frac{1}{2}}$

$= 7 - (25)^{\frac{1}{2}}$

$= 7 - (5)$

$= (2)$

3. $1/4 \times 16 - (99 \div 11 - 8)$ - 4 steps

$= 1/4 \times 16 - ((9) - 8)$

$= (4) - (1)$

$= (3)$

4. $(19 - \sqrt{16} + 1/3 \div 1/3)^{1/2}$ - 6 steps

$= (19 - (4) + 1/3 (\times \frac{3}{1}))^{1/2}$

$= (15) + (1)^{1/2}$

$= (16)^{\frac{1}{2}}$

$= (4)$

Continue to Solve:

5. $(6 - 85 \div 5 + 6) \times -1$ - 4 steps

$= (6 - 17 + 6) \times -1$

$= (-11 + 6) \times -1$

$= -5 \times -1$

$= +5$

6. $(17 - 1 + 4) \div 10 \times 39 \div 13$ - 5 steps

$= (16 + 4) \div 10 \times 39 \div 13$

$= 20 \div 10 \times 39 \div 13$

$= 2 \times 39 \div 13$

$= 78 \div 13$

$= 6$

7. $(1 + (66 - 9^2)) \times (-32 \div -8^2)$ - 6 steps

$= (1 + (66 - 81)) \times (-32 \div 64)$

$= (1 + (-15)) \times -\frac{1}{2}$

$= -14 \times -\frac{1}{2}$

$= 7$

8. $((\sqrt{1} \times \sqrt{36}) \div (27 \div 9))^3$ - 5 steps

$= ((1 \times 6) \div 3)^3$

$= (6 \div 3)^3$

$= 2^3$

$= 8$