

**Order of Operations with Parentheses**

Bell Work

**Math 5**

The given numerical expressions are solved in two different ways.  
Which solution is correct and why?

1.

**Solution A**

$$(9 + 5) \div (7 - 5) + 2 \times 4$$

$$14 \div (7 - 5) + 2 \times 4$$

$$14 \div 2 + 2 \times 4$$

$$7 + 2 \times 4$$

$$7 + 8$$

$$15$$

**Solution B**

$$(9 + 5) \div (7 - 5) + 2 \times 4$$

$$14 \div (7 - 5) + 2 \times 4$$

$$14 \div 2 + 2 \times 4$$

$$7 + 2 \times 4$$

$$9 \times 4$$

$$36$$

**Answer:**

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**Math 5**

2.

**Solution A**

$$32 \div (8 \times 2) + [(10 - 2) + 5]$$

$$32 \div 16 + [(10 - 2) + 5]$$

$$32 \div 16 + [8 + 5]$$

$$32 \div 16 + 13$$

$$2 + 13$$

$$15$$

**Solution B**

$$32 \div (8 \times 2) + [(10 - 2) + 5]$$

$$32 \div (8 \times 2) + [8 + 5]$$

$$32 \div 8 \times 2 + 13$$

$$4 \times 2 + 13$$

$$8 + 13$$

$$21$$

**Answer:**

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**Math 5**

3.

**Solution A**

$$[(90 + 9) \div 11 - 2] \times 4 - 6$$

$$[99 \div 11 - 2] \times 4 - 6$$

$$[99 \div 9] \times 4 - 6$$

$$11 \times 4 - 6$$

$$44 - 6$$

$$38$$

**Solution B**

$$[(90 + 9) \div 11 - 2] \times 4 - 6$$

$$[99 \div 11 - 2] \times 4 - 6$$

$$[9 - 2] \times 4 - 6$$

$$7 \times 4 - 6$$

$$28 - 6$$

$$22$$

Answer:

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**Answers:**

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Which solution is correct and why?

1.

**Solution A**

$$(9 + 5) \div (7 - 5) + 2 \times 4$$

$$14 \div (7 - 5) + 2 \times 4$$

$$14 \div 2 + 2 \times 4$$

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$$7 + 8$$

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**Solution B**

$$(9 + 5) \div (7 - 5) + 2 \times 4$$

$$14 \div (7 - 5) + 2 \times 4$$

$$14 \div 2 + 2 \times 4$$

$$7 + 2 \times 4$$

$$9 \times 4$$

$$36$$

Answer: (Answers may vary)

Solution A is the correct answer because it followed the PEMDAS rule.

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2.

**Solution A**

$$32 \div (8 \times 2) + [(10 - 2) + 5]$$

$$32 \div 16 + [(10 - 2) + 5]$$

$$32 \div 16 + [8 + 5]$$

$$32 \div 16 + 13$$

$$2 + 13$$

$$15$$

**Solution B**

$$32 \div (8 \times 2) + [(10 - 2) + 5]$$

$$32 \div (8 \times 2) + [8 + 5]$$

$$32 \div 8 \times 2 + 13$$

$$4 \times 2 + 13$$

$$8 + 13$$

$$21$$

**Answer: (Answers may vary)**

**Solution A is the correct answer because it followed the PEMDAS rule.**

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Math 5

3.

**Solution A**

$$[(90 + 9) \div 11 - 2] \times 4 - 6$$

$$[99 \div 11 - 2] \times 4 - 6$$

$$[99 \div 9] \times 4 - 6$$

$$11 \times 4 - 6$$

$$44 - 6$$

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**Solution B**

$$[(90 + 9) \div 11 - 2] \times 4 - 6$$

$$[99 \div 11 - 2] \times 4 - 6$$

$$[9 - 2] \times 4 - 6$$

$$7 \times 4 - 6$$

$$28 - 6$$

$$22$$

Answer: (Answers may vary)

Solution B is the correct answer because it followed the PEMDAS rule.