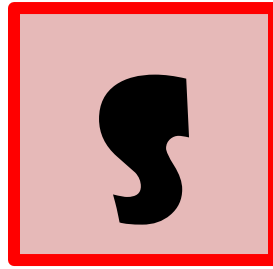
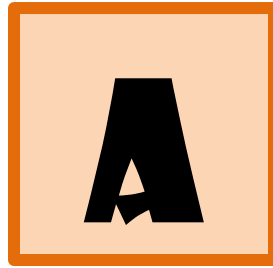


Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Order of Operations with Parentheses

Assignment  
Math 5

**Part 1:** What does PEMDAS stand for?



Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Order of Operations with Parentheses

Assignment  
**Math 5**

**Part 2:** Evaluate the following numerical expressions.

1.  $6 \times (5 - 2) + 4 \div 2$

2.  $(16 - 6) \div 2 + (4 \times 5)$

3.  $(10 + 8) \div 3 + 6 \times (8 - 4)$

4.  $8 \times (6 - 5) - 16 \div (4 \times 2)$

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Order of Operations with Parentheses

Assignment  
**Math 5**

5.  $(10 + 8) \div 3 + 6 \times (8 - 4)$

6.  $25 \times (10 - 5) + [9 - (4 \times 2)]$

7.  $[9 \times (27 \div 3)] + [81 \div (27 \div 3)] - 9$

8.  $[(9 - 6) \times (8 + 7)] \div [15 \div (9 - 4) \times 5]$

## Order of Operations with Parentheses

Assignment  
Math 5

**Part 3:** Solve the following problems.

1. A cookie shop is giving away packs of cookies at a cheaper price. Originally, each pack costs \$25. But for a limited time, they're offering a \$10 discount for every pack bought. May and Joy bought 8 packs and both decided to share the cost.
  - a. Write a numerical expression to represent the situation above.
  
  
  
  
  
  
  
  
  
  
  - b. How much money does May and Joy have to share?

## Order of Operations with Parentheses

Assignment  
Math 5

2. Nick withdrew \$3000 from his bank account. He gave his wife \$1000 and divided the remaining amount into 4, gave 3 parts to his 3 children equally and kept 1 part for himself. He bought 3 new pairs of shoes for \$75 each pair.
- a. Write a numerical expression to represent the situation above.
- b. How much money does Nick have left?

# Order of Operations with Parentheses

Assignment  
Math 5

## Answers:

**Part 1:** What does PEMDAS stand for?



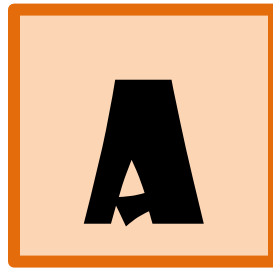
Parentheses



Division



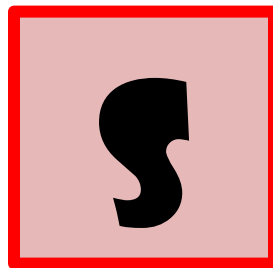
Exponent



Addition



Multiplication



Subtraction

# Order of Operations with Parentheses

Assignment  
**Math 5****Part 2:** Evaluate the following numerical expressions.

1.  $6 \times (5 - 2) + 4 \div 2$

$6 \times 3 + 4 \div 2$

$18 + 4 \div 2$

$18 + 2$

**20**

2.  $(16 - 6) \div 2 + (4 \times 5)$

$10 \div 2 + (4 \times 5)$

$10 \div 2 + 20$

$5 + 20$

**25**

3.  $(10 + 8) \div 3 + 6 \times (8 - 4)$

$18 \div 3 + 6 \times (8 - 4)$

$18 \div 3 + 6 \times 4$

$6 + 6 \times 4$

$6 + 24$

**30**

4.  $8 \times (6 - 5) - 16 \div (4 \times 2)$

$8 \times 1 - 16 \div (4 \times 2)$

$8 \times 1 - 16 \div 8$

$8 - 16 \div 8$

$8 - 2$

**6**

# Order of Operations with Parentheses

Assignment  
**Math 5**

5.  $(10 + 8) \div 3 + 6 \times (8 - 4)$

$18 \div 3 + 6 \times (8 - 4)$

$18 \div 3 + 6 \times 4$

$6 + 6 \times 4$

$6 + 24$

**30**

6.  $25 \times (10 - 5) + [9 - (4 \times 2)]$

$25 \times (10 - 5) + [9 - 8]$

$25 \times (10 - 5) + 1$

$25 \times 5 + 1$

$125 + 1$

**126**

7.  $[9 \times (27 \div 3)] + [81 \div (27 \div 3)] - 9$

$[9 \times 9] + [81 \div (27 \div 3)] - 9$

$81 + [81 \div (27 \div 3)] - 9$

$81 + [81 \div 9] - 9$

$81 + 9 - 9$

$90 - 9$

**81**



# Order of Operations with Parentheses

Assignment  
**Math 5**

8.  $[(9 - 6) \times (8 + 7)] \div [15 \div (9 - 4) \times 5]$

$$[3 \times (8 + 7)] \div [15 \div (9 - 4) \times 5]$$

$$[3 \times 15] \div [15 \div (9 - 4) \times 5]$$

$$45 \div [15 \div (9 - 4) \times 5]$$

$$45 \div [15 \div 5 \times 5]$$

$$45 \div [3 \times 5]$$

$$45 \div 15$$

**3**

# Order of Operations with Parentheses

Assignment  
Math 5

**Part 3:** Solve the following problems.

1. A cookie shop is giving away packs of cookies at a cheaper price. Originally, each pack costs \$25. But for a limited time, they're offering a \$10 discount for every pack bought. May and Joy bought 8 packs and both decided to share the cost.
- a. Write a numerical expression to represent the situation above.

**Solution:**  $(25 - 10) \times 8 \div 2$

- b. How much money does May and Joy have to share?

**Solution:**  $(25 - 10) \times 8 \div 2$

$$15 \times 8 \div 2$$

$$120 \div 2$$

$$60$$

**May and Joy has to share \$60 each.**

## Order of Operations with Parentheses

Assignment  
Math 5

2. Nick withdrew \$3000 from his bank account. He gave his wife \$1000 and divided the remaining amount into 4, gave 3 parts to his 3 children equally and kept 1 part for himself. He bought 3 new pairs of shoes for \$75 each pair.

- a. Write a numerical expression to represent the situation above.

**Solution:**  $(3000 - 1000) \div 4 - (3 \times 75)$

- b. How much money does Nick have left?

**Solution:**  $(3000 - 1000) \div 4 - (3 \times 75)$

$$2000 \div 4 - (3 \times 75)$$

$$2000 \div 4 - 225$$

$$500 - 225$$

$$275$$

**Nick has \$275 left.**