

Grade 5 FUNPACK

TEKS 5.4F *simplify numerical expressions that do not involve exponents, including up to two levels of grouping.*

Activity Directions:

Items Needed: *Order of Operations* game cards, scissors, game boards

1. Copy the game cards to use as a card deck. Cut the cards apart, shuffle, and use as a draw pile.

2. Copy the game board for each partner group.

3. Player A draws a card from the deck and places it face up. Player A solves the problem and finds the solution on any one of the four tic-tac-toe boards. Then, Player A places an X on the space he/she chooses to mark. If the answer appears on more than one of the four boards, the player may *only* place a single X on the board. The first player to make a tic-tac-toe (3 in a row horizontally, vertically, or diagonally) on one of the four boards is the winner.

*** Each player should view all possible locations to ensure he/she strategically places his/her mark in the best place to score a tic-tac-toe or possibly block the opponent from winning.

4. Player B repeats the process, using an O to mark the spot.

5. If a player does not win after using the full deck of cards, re-shuffle and continue the game.

6. Have students practice questions coded to TEKS 5.4F.

Order of Operations Game Board

(41)	66	33	13	18	4
84	36	4	36	(144)	5
144	45	(5)	33	66	72
(72)	144	41	(84)	45	36
18	45	84	72	41	(18)
13	33	4	66	5	13

Problem-Solving Cards: Cut apart cards, shuffle, and use as a draw pile.

<p>Simplify the expression.</p> $9 \times (5 + 20 \div 4) \div 2$	<p>Simplify the expression.</p> $8 \times (4 + 8) - 4 \times 6$	<p>Simplify the expression.</p> $48 - 6 \times (3 + 2)$
<p>What is the value of the expression?</p> $2 + 4 \times 6 \div 8$	<p>What is the value of the expression?</p> $17 - 40 \div 4 + 26$	<p>What is the value of the expression?</p> $(36 + 7) - 20 \div 10$
<p>Simplify the expression.</p> $4 + 9 \cdot 4 + 1$	<p>Simplify the expression.</p> $5 \times (12 - 7) - 8 + 1$	<p>Simplify the expression.</p> $8 \times 8 + 2(11 - 7)$
<p>What is the value of the expression?</p> $(7 - 5) + 8 \times 8$	<p>What is the value of the expression?</p> $[(3 \times 9) - 7] \div 5$	<p>What is the value of the expression?</p> $(12 + 7) - 3 \times 4 + 6$

<p>What is the value of the expression?</p> $(3 + 1) \times (72 \div 8)$	<p>What is the value of the expression?</p> $(15 - 6) \times (12 - 7)$	<p>What is the value of the expression?</p> $24 \div 6 \times 3 \times (56 \div 8)$
<p>Simplify the expression.</p> $4 \times 4 \times (10 - 1)$	<p>Simplify the expression.</p> $(7 - 4) \times (121 \div 11)$	<p>Find the value of the expression when $a = 8$.</p> $a \times 5 - a \div 2$
<p>Find the value of the expression when $b = 7$.</p> $b \times 10 + 28 - (2 \times b)$	<p>Find the value of the expression when $c = 5$.</p> $(c \times 3) \times 2 - 25$	<p>Find the value of the expression when $d = 6$ and $g = 9$.</p> $2 \times (g \times g) - (3 \times d)$

Order of Operations Game Board

41	66	33
84	36	4
144	45	5

13	18	4
36	144	5
33	66	72

72	144	41
18	45	84
13	33	4

84	45	36
72	41	18
66	5	13

FUNPACK SAMPLE PAGES

Name _____

Date _____

TEKS 5.4F *simplify numerical expressions that do not involve exponents, including up to two levels of grouping.*

TEKS 5.4F Mini-Assessment

1. The Granados family had a cookout to celebrate the 4th of July. Mr. Granados made hot dogs, hamburgers, and sausage wraps to feed 18 family members.

- Four people chose hot dogs.
- Twice as many chose sausage wraps as hot dogs.
- The rest decided to have hamburgers.

This expression can be used to determine the number of family members who chose hamburgers.

$$18 - (4 + 2 \times 4)$$

How many family members chose hamburgers?

Enter your answer in the box.

2. Sixty-three campers are attending sports camp.

- 13 campers chose football as their focus.
- 10 campers chose basketball as their focus.
- The remaining campers were split into equal groups to focus on tennis, soccer, baseball, volleyball, or softball.

The expression below can be used to find the number of campers who will focus on volleyball.

$$[63 - (13 + 10)] \div 5$$

How many campers will focus on volleyball?

Enter your answer in the box.

3. Angie is driving across Texas to visit her grandparents. She drove 70 miles per hour for 5 hours, 60 miles per hour for 3 hours, and she still must drive 120 miles to arrive at her destination. The expression below can be used to find the total distance of Angie's trip.

$$5 \times 70 + 3 \times 60 + 120$$

How far will Angie drive to visit her grandparents?

- (A) 650 miles
- (B) 530 miles
- (C) 550 miles
- (D) 21,300 miles

4. Manuel took a \$100 bill to the store. He bought 3 shirts for \$22 each and 2 pair of jeans for \$15 each. The expression below can be used to find the amount of money Manuel had left after paying for his purchases.

$$100 - (3 \times 22 + 2 \times 15)$$

How much money did Manuel have left?

- (A) \$96
- (B) \$66
- (C) \$4
- (D) \$34

5. A zookeeper feeds 4 types of animals.

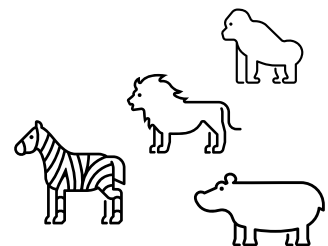
- The animals eat a total of 1,500 pounds of food daily.
- The zebras eat 350 pounds of food.
- The hippos eat twice as much as the zebras.
- The lions and gorillas eat the same amount of food.

The expression below can be used to find the amount of food the gorillas eat every day.

$$(1,500 - 350 - 350 \times 2) \div 2$$

What is the amount of food the gorillas eat measured in pounds?

Enter your answer in the box.



6. What is the value of the expression shown?

$$4[5.6 - 2(1.9)]$$

- (A) 27.36
- (B) 7.2
- (C) 5.7
- (D) 8.8

7. An expression is shown.

$$7 \times (6.4 + 15.6) - 8$$

What value is equivalent to the expression?

- (A) 144
- (B) 154
- (C) 136
- (D) 146

8. A baker used $\frac{1}{3}$ cup of milk for one recipe. Then she used 3 cups of milk for each of 3 more recipes. The total number of cups of milk the baker used can be found by using the expression.

$$\frac{1}{3} + (3 \times 3)$$

How many cups of milk did the baker use?

Enter your answer in the box.

9. Which expression has a value of 12?

- (A) $4 \times 12 \div 3 - (18 - 9)$
- (B) $18 - (9 \times 4 + 12) \div 3$
- (C) $9 \div 3 \times 12 \div 18 - 1$
- (D) $9 + (18 \times 4 \div 12) - 3$

10. What is the value of this expression?

$$12[4 + (9 + 3) \div 4]$$

Enter your answer in the box.