



BLIZZARD BAG - GRADE 6
ASSIGNMENTS 1-3



Blizzard Bag Activities: Using the Tic Tac Toe Board below, choose an assignment for each snow day. By the end of the three days, you should create a line that is horizontal, vertical, or diagonal. Each skill is a concept that we have had this year.

<p>6.NS.1</p> <p>Fluently divide fractions.</p> <p>Complete worksheet 1</p>	<p>6.NS.3</p> <p>Fluently add, subtract, multiply and divide decimals.</p> <p>Complete worksheet 2</p>	<p>6.NS.5b</p> <p>Understand signs of numbers in ordered pairs indicating locations in quadrants.</p> <p>Complete worksheet 3</p>
<p>6.RP.1, 2 and 3</p> <p>Understand the concept of ratio and use ratio language to describe a ratio relationship.</p> <p>Complete worksheet 4</p>	<p>6.RP.2b</p> <p>Understand the concept of unit rate. Solve unit rate problems.</p> <p>Complete Worksheet 5</p>	<p>6.RP.3c</p> <p>Find a percent of a quantity as a rate per 100.</p> <p>Complete Worksheet 6</p>
<p>6.RP.3d</p> <p>Use ratio reasoning to convert measurement units.</p> <p>Complete Worksheet 7</p>	<p>6.EE.1</p> <p>Write and evaluate numerical expressions involving whole number exponents.</p> <p>Complete Worksheet 8</p>	<p>6.EE.2</p> <p>Write, read and evaluate expressions in which letters stand for numbers.</p>

WORKSHEET 1
6.NS.1

Name _____

Date _____ Class _____

Show all work and express answer in simplest form.

1. $9/10 \div 2/5$

6. $1 \frac{1}{2} \div 1/8$

2. $12/15 \div 5/6$

7. $2 \frac{1}{3} \div 1 \frac{3}{4}$

3. $7/8 \div 1/2$

8. $9 \frac{1}{8} \div 3/5$

4. $4/9 \div 10/12$

9. $12 \frac{1}{7} \div 6 \frac{5}{7}$

5. $4/8 \div 2/3$

10. $6 \frac{1}{2} \div 5/8$

Read carefully and solve. Show all work.

11. Jeffrey orders an 8-foot sub for a birthday party and cuts it into $1/4$ foot sandwiches. How many sandwiches will he have?
12. A runner sets a goal to run 100 miles. How many days will it take to reach the goal if she runs $4/5$ of a mile each day?
13. How many $1/15$ -meter lengths of rope can be cut from a rope that is $9/10$ meter long?
14. Charlie wants to divide $9/10$ cup of leftover rice into $1/5$ cup containers. How many containers will he need?
15. Samantha purchased a bag of dog food that contained 25.5 pounds of food. She feeds her dog $1/2$ cup of dog food each day. How many servings are in the bag she purchased?

WORKSHEET 2
6.NS.3

Name _____ Date _____ Class _____

Solve each problem.

- | | | | |
|----|------------------|----|---------------------|
| 1. | $4.95 + 3.98$ | 5. | $4.986 + 2.9 + 7$ |
| 2. | $6.78 - 4.9$ | 6. | $15 - 4.943$ |
| 3. | 6.7×9.5 | 7. | $8.764 \times .004$ |
| 4. | $7.718 \div 2$ | 8. | $952 \div 0.34$ |

Read each question/statement carefully.

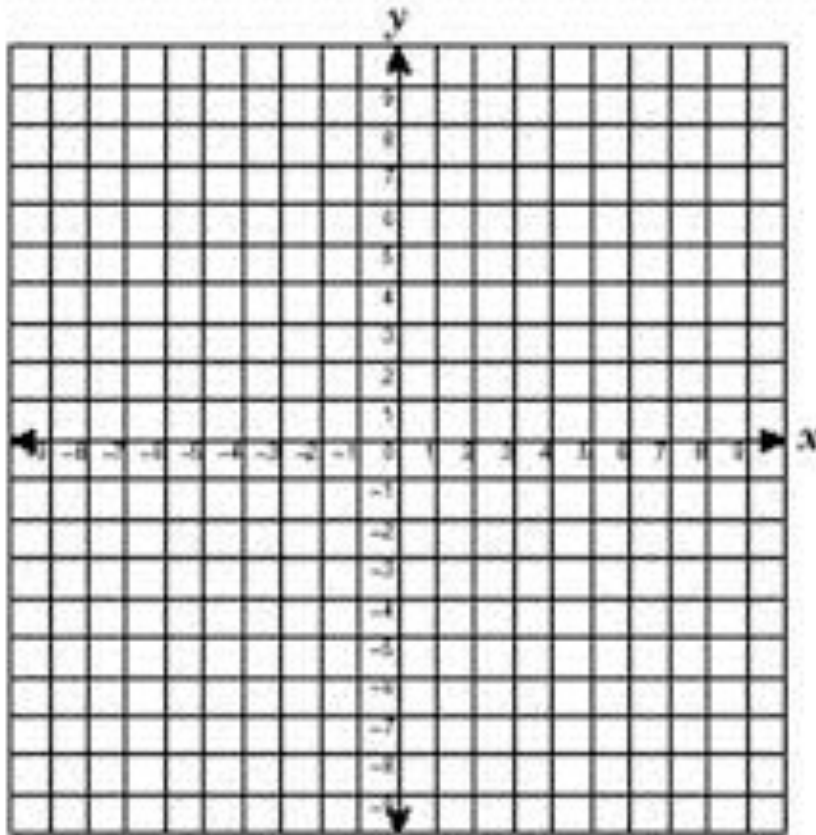
9. Which expressions have a value of 12.4? Circle all that apply.
- A. $104.16 \div 8.4$
 - B. $82.96 \div 6.8$
 - C. $59.22 \div 4.7$
 - D. $39.68 \div 3.2$
 - E. $65.19 \div 5.3$
10. Which expressions have a value of 0.064. Circle all that apply.
- A. 0.2×0.32
 - B. 4×0.16
 - C. 3.2×0.2
 - D. 1.6×0.04
 - E. 0.8×0.08
11. Nick bought a sweater for \$16.75 and a pair of pants for \$28.92. He paid with a \$50 bill, how much change should he receive?
12. Maya mailed three packages. Their weights in pounds were 4.5 pounds, 2.75 pounds, and 3.4 pounds. What was the total weight of the packages? If it costs \$1.75 for each pound shipped, what is the cost of shipping all three packages?

WORKSHEET 3
6.NS.5b

Name _____ Date _____ Class _____

1. Graph and label the given coordinate points.

- | | | | | | |
|----|---------|----|----------|----|---------|
| A. | (7, 5) | D. | (-2, -1) | G. | (0, -3) |
| B. | (-2, 8) | E. | (4, 0) | H. | (1, 5) |
| C. | (3, -7) | F. | (2, -9) | I. | (0, 0) |



2. Write the ordered pair in the correct column.

(-2, 3) (1, 4) (2, -1) (-3, -5) (3, 5) (-4, 1) (-2, -2) (3, -4)

Quadrant 1

Quadrant 2

Quadrant 3

Quadrant 4

3. Use the grid on the coordinate grid, to help you answer the questions.
- a. If point P (1, 2) is reflected over the y-axis, what will be the coordinates of its new location?
 - b. If point Q (3, -4) is reflected over the x-axis, what would be the coordinates of its new location?
 - c. If point R (0, 2) is reflected over the x-axis and then reflected over the y-axis, what would be the coordinates of its new location?
 - d. Marie's house is located at point (4, 5). She walks 3 blocks north and then two blocks west. What are Marie's new coordinates?
 - e. The park is located at (9, -3). Write a description Marie's path to the park.

WORKSHEET 4
6.RP.1, 2, and 3

Name _____ Date _____ Class _____

Chantal's Flower Bed

<u>Type of Flower</u>	<u>Number of Bulbs</u>
Daffodils	8
Hyacinths	10
Tulips	12

1. Use the table above to answer.
 - a. What is the ratio of daffodil bulbs to the hyacinth bulbs?
 - b. For every 3 bulbs that were planted, how many were hyacinth bulbs?
 - c. If Chantal planted 20 hyacinth bulbs, how many tulip bulbs did she plant?
 - d. The cost of one daffodil bulb is \$1.75. How much for 8 bulbs?
 - e. The cost of 12 tulip bulbs is \$12.96. How much is one tulip bulb?

2. A snack packaging company puts 3 cups of raisins, 2 cups of blueberries, and 5 cups of oats in every batch of granola mix. Determine if each ratio is true or false.
 - a. raisins to oats = 3:5 true or false
 - b. raisins to blueberries = 2:3 true or false
 - c. blueberries to oats = 2:5 true or false
 - d. oats to total fruit = 1:1 true or false

3. A successful pitcher in baseball should have at least a 3 to 1 ratio of strikes to walks. Decide whether each strikeout to walk ratio is equivalent to 3:1. Circle yes to no.
 - a. 6 strikeouts, 2 walks yes or no
 - b. 10 strikeouts, 5 walks yes or no
 - c. 18 strikeouts, 6 walks yes or no
 - d. 9 strikeouts, 3 walks yes or no

4. Complete the table.

a. Fruit Punch

Cups of Fruit Juice	2	4	6	?
Cups of Ginger Ale	3	6	?	12

b. Cookie Ingredients

Cups of Flour	6	9	12	?
Cups of Sugar	?	3	4	5

5. Katie read 3 biographies and 5 novels last summer. Draw a line from each ratio to what it represents.

- a. biographies to novels 5/8
- b. novels to biographies 8/3
- c. novels to total books 3/5
- d. total books to biographies 5/3

6. The Bobcats won 12 games and lost 5 games. Circle every ratio of the Bobcat's wins to losses.

- a. 12:5
- b. 5:12
- c. 12/17
- d. 12 to 5
- e. 12/5
- f. 5 to 12
- g. 12:17

WORKSHEET 5
6.RP.2b

Name _____ Date _____ Class _____

1. Ling is driving at a constant speed of 55 miles per hour. At that rate, how long will it take him to drive 275 miles?
2. Callie's family spends an average of \$70 per month on electricity. At that rate, what can Callie's family expect to pay for electricity over a year?
3. Which of the following does NOT have a unit price of \$24 for one sweater?
 - a. \$38 for 2 sweaters
 - b. \$72 for 3 sweaters
 - c. \$96 for 4 sweaters
 - d. \$120 for 5 sweaters
4. A city charges \$4.80 per 1,000 gallons of water used each month. Circle every water bill usage summary that could belong to a resident of that city.
 - a. \$2.20 for 500 gallons
 - b. \$12.60 for 2,500 gallons
 - c. \$14.40 for 3,000 gallons
 - d. \$16.00 for 4,000 gallons
 - e. \$19.20 for 4,500 gallons
 - f. \$26.40 for 5,500 gallons
 - g. \$28.80 for 6,000 gallons
5. The table shows the amounts that Renee earned babysitting for different numbers of hours. Select true or false for each statement.

Hours	1	2	?	6	7	10
Amount Earned (\$)	?	13.00	32.50	?	45.50	?

- a. Renee earned \$5.50 in 1 hour true or false
- b. Renee earned \$32.50 in 5 hours true or false
- c. Renee earned \$39.00 in 6 hours true or false
- d. Renee earned \$55.00 in 10 hours true or false

6. Draw a line from each total price to the corresponding unit price.

- | | |
|-------------------------------|--------|
| a. \$20.00 for 5 books | \$1.25 |
| b. \$1.00 for 10 pens | \$0.10 |
| c. \$3.00 for 12 ears of corn | \$0.25 |
| d. \$10.00 for 8 songs | \$4.00 |

7. Raghav traveled at a rate of 50 miles per hour. At that rate, decided whether Raghav can travel each given distance in the given amount of time. Select yes or no.

- | | |
|---------------------------|-----------|
| a. 700 miles in 10 hours | yes or no |
| b. 350 miles in 7 hours | yes or no |
| c. 200 miles in 2 hours | yes or no |
| d. 125 miles in 2.5 hours | yes or no |

8. Circle the better unit rate.

- | | |
|---------------------------------|------------------------------|
| a. 500 miles in 6 hours | 300 miles in 4 hours |
| b. \$3.79 for 3 dozen eggs | \$2.15 for 2 dozen eggs |
| c. 600 calories for 8 ounces | 1000 calories for 10 ounces |
| d. typing 80 words in 4 minutes | typing 60 words in 2 minutes |

WORKSHEET 6

6.RP.3c

Name _____ Date _____ Grade _____

1. Circle every statement that is true.

- a. $14\% = 0.14$
- b. $80\% = 8/100$
- c. $65 = 65\%$
- d. $21/100 = 0.21$
- e. $0.99 = 99\%$
- f. $76\% = 76/100$
- g. $40/100 = 0.04$

2. Draw a line from each percent to its equivalent fraction.

- a. 90%
- b. 12%
- c. 50%
- d. 75%
- $1/2$
- $9/10$
- $3/25$
- $3/4$

3. The table shows the scores that several students received on a quiz. Select true or false for each statement. Hint - complete the table first

Student	Score (Fraction)	Score (Percent)
Venell	$16/20$?
Kari	$13/20$?
Fia	?	75%
Jeremy	?	95%

4. 435 is 15% of what number?

5. What is 38% of 560?

6. There are 25 students performing in the holiday concert. Of the students, 11 are boys. What percent of the students are boys?

7. As a class project, Messa collected \$126 in donations for local hospice. That amount was 7% of the total amount collected by the class. How much money did the class collect in all?

8. A television is on sale for 30%, if the TV costs \$350, what will be the sale price?

9. 80% of the high school students passed the OGT. If there are 120 high school students, how many didn't pass the test?

10. Seventy-five students took part in the annual blood drive. This is 15% of the school's population. How many total students attend the high school?

WORKSHEET 7

6.RP.3d

Name _____ Date _____ Class _____

A. Fill in the missing measurement.

1. 6 cups = _____ ounces
2. 12 yards = _____ feet
3. _____ pounds = 3 Tons
4. _____ minutes = 5 hours

B. A shuffleboard table is 22 feet long. Circle every measure that is equivalent to the table's length.

1. 7 $\frac{1}{3}$ yd
2. 2.2 cm
3. 1 ft 10 in
4. 7 yd 1 ft
5. 220 mm
6. 66 yd
7. 264 in

C. The table shows the weights of four foods in pounds or ounces. Select true or false for each statement.

Food	Pounds	Ounces
Pineapple	2	?
Watermelon	?	256
Steak	?	8
Carrot	0.1	?

1. The pineapple weighs 32 ounces true or false
2. The watermelon weighs 16 pounds true or false
3. The steak weighs 1 pound true or false
4. The carrot weighs 1.6 ounces true or false

D. The heights of several flowers and trees in Tina's yard are given below. Compare each height to 1 meter and write it under the correct heading.

25 cm	9,000 mm	40,000 cm
0.02 km	790 mm	0.0008 km

Less Than 1 Meter _____ Greater than 1 Meter

E. Draw a line from each capacity to its equivalent capacity.

- | | |
|----------|-----------|
| 1. 5 c | 8 qt |
| 2. 8 pt | 16 c |
| 3. 2 gal | 3 1/2 gal |
| 4. 14 qt | 2 1/2 pt |

F. Melissa made 164 fluid ounces of lemonade for a party. How many cups of lemonade did Melissa make?

G. Brendan's dog has a mass of 25,700 grams.

1. What is the dog's mass in milligrams?
2. What is the dog's mass in kilograms?

WORKSHEET 8
6.EE.1

Name _____ Date _____ Class _____

Evaluate.

1. $20 + 8 - 4^2$
2. $6 \div 2 - 1$
3. What is the value of the expression when $a = 2$ and $b = 4$?
 $3a + b$
4. What is the value of the expression below when $k = 4$?
 $18 - k^2$
5. Circle every expression that is equal to 6.
 - a. $6 \times 3 - 12$
 - b. $2 \times 2 \times 2 + 2$
 - c. $18 - 4 + 7 - 10$
 - d. $3^3 - 3$
 - e. $12 \div 6 + 2^2$
6. Select true or false for each statement.
 - a. $4 \times 4 + 3 = 19$ true or false
 - b. $15/5 - 1 + 8 = 10$ true or false
 - c. $3(2 + 4) = 10$ true or false
 - d. $4 \times 5 + 2 = 28$ true or false
 - e. $3 + 7 \times 2 = 17$ true or false
7. If $a = 2$ and $b = 4$, is the value of each expression 10? Select yes or no.
 - a. $a + 2b$ yes or no
 - b. $3b - a/2$ yes or no
 - c. $a^3 + b/2$ yes or no
 - d. $b^a - 6$ yes or no
 - e. $4b - 3a + 1$ yes or no
8. Solve.
 - a. $7 + (3 + (5 + 2)2) - 4$
 - b. $(52 + (15 \div 3 + 22)) + 32$

WORKSHEET 9

6.EE.2

Name _____ Date _____ Grade _____

- Circle every statement that is true.
 - $(xy)^3$ represents “the cube of the product of a number x and a number y ”.
 - $(n+4)^2$ represents “the sum of the square of a number and 4”.
 - $2^2 \times (5+n)$ represents “add 5 and a number n ; then multiply by 2 squared”.
 - $n^3 - 3^2$ represents “subtract the cube of a number from 3 squared”.
 - $(n-2)^3$ represents “the cube of the difference of n and 2”.
- Select true or false for each statement about the representation of the expression “the sum of 6 and 5 times a number n .”

a. 6 is a factor	true or false
b. 5 is a factor	true or false
c. 5 is a coefficient	true or false
d. 6 is an addend	true or false
e. $5n$ is a term	true or false
f. 6 is a term	true or false
- Write an expression for each written statement.
 - the product of a and a number 8
 - six times the sum of 4 and p
 - nine increased by a number k
 - seven less than number q
 - the sum of 16 squared and the quotient of 8 and a number b
- Which expression is NOT equivalent to $5x + 6$?
 - $4x + 7 + x - 1$
 - $3x + 3 + 2x + 3$
 - $5(x+1) + 1$
 - $x(5+6)$
- Circle every expression that is equivalent to $4c + 20$.
 - $2c + 2c + 12 + 8$
 - $4(c+5)$
 - $3c + 20 + 2c$
 - $4(c+20)$

6. Solve for the variable.
- a. $2f = 32$
 - b. $29 + c = 62$
 - c. $j - 87 = 165$
 - d. $\frac{1}{5}k = 5$
 - e. $36 + x = 54$
7. Circle every equation that has a solution of 12.
- a. $9x = 108$
 - b. $\frac{x}{3} = 4$
 - c. $x + 3 = 9$
 - d. $x - 4 = 16$
8. Patel had 5 less than 4 times as many trophies as Horatio. He has 19 trophies in all. How many trophies does Horatio have?
9. The Downtown Theater has 413 seats, which is 8 more than 3 times as many seats as Uptown Theater has. How many seats are there in the Uptown Theater?
10. Tristan has 20 less than 3 times as many DVD's as Anna. If Tristan has 55 DVD's, how many DVD's does Anna have?