

Extra work

packet

5th Grade

Order of Operations #17

EVALUATE THE EXPRESSION

$$[18 \times (3 - 2)] \div 1 + 5$$

Order of Operations #18

EVALUATE THE EXPRESSION

$$4 + [(2 \times 3 + 3) \div 3] - 7$$

Order of Operations #19

EVALUATE THE EXPRESSION

$$7 - [(3 + 12) - (15 - 6)]$$

Order of Operations #20

EVALUATE THE EXPRESSION

$$2 \times [15 - (3 + 2)] - 3$$

2

1. For each verbal expression, record a numerical expression. For the last one, write a verbal expression!

Verbal expression	Numerical expression
1. Three more than the quotient of 10 and 2	
Fifteen less than thirty	
Half the sum of 8 and 4	
7 fewer than the product of 10 and 4	
	$3 \times (20 + 4)$

Match it up! Draw a line connecting the matching verbal phrases and expressions.

verbal phrases	expressions
Ten more than two times six	$2 \times (10 + 6)$
Twice the sum of ten and six	$2 \times 6 + 10$
Add ten and two, then multiply by 6	$(10 + 2) \times 6$

2. Which expression is "five less than three times the difference of 14 and 8"?

- a. $5 - 3 \times 14 - 8$
- b. $5 - 3 \times (14 - 8)$
- c. $3 \times 14 - 8 - 5$
- d. $3 \times (14 - 8) - 5$

Name:

3

Date:

Error Analysis – Order of Operations

Billy Bob missed class yesterday so he went onto the school website to pull up the Order of Operations worksheet. He *took risks* and *worked persistently* but ~~made mistakes~~ along the way.

In the boxes below, please:

- Circle the mistakes in his original work.
- Then show the correct work below and solve the problem.

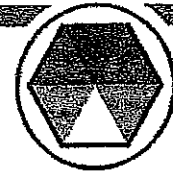
$25 - 9 \times 2 + 3 =$ $25 - 18 + 3$ $25 - 21$ 4 <p>Corrections:</p>	$2 + 3 \times (5 + 4) =$ $2 + 3 \times (9)$ $5 \times (9)$ 45 <p>Corrections:</p>
$15 - 12 \div 4 \times 3 =$ $15 - 12 \div 12$ $15 - 1$ 14 <p>Corrections:</p>	$6 + 9 \div 3 \times 4 =$ $15 \div 3 \times 4$ 5×4 20 <p>Corrections:</p>

4

TIP of the DAY

A place value ending in "ths" means it is a number to the right of the decimal point.

DAY 4



1. Write 360.281 in (A) words and in (B) expanded form.

5.NBT.3

2. What number is one hundredth of the expanded form below?

$$7(1,000) + 9(100) + 2(10) + 5(1) + 4\left(\frac{1}{10}\right) + 3\left(\frac{1}{100}\right)$$

5.NBT.3

3. Place the following numbers in order from smallest to largest:

314.807

314.9

313.975

314.78

5.NBT.3

4. Write sixteen thousand, two hundred nine and twelve hundredths in (A) standard form and (B) expanded form.

5.NBT.3

5. Write a number sentence using a comparison symbol, 17.9 and 17.869.

5.NBT.3

6. Place the following numbers in order from smallest to largest:

6.107

6.2

6.14

6.143

5.NBT.3



DAY 1

5

For rounding, look at the digit to the right of the place you are rounding to. If it is a five or greater, the number rounds up.

TIP of the **DA**

1. Gas was \$2.9154 per gallon. Round 2.9154 to the nearest (A) tenth, (B) hundredth and (C) thousandth.

5.NB

2. What is $22 - 0.76$?

5.NBT

3. Write a number that has a 9 that is $\frac{1}{10}$ the value of the 9 in 7.593.

5.NBT.1

4. Round 784.39 to the nearest (A) tenth and (B) hundred.

5.NBT.4

5. What is 3×10^3 in standard form?

5.NBT.2

6. $84.719 + 210 = ?$

5.NBT.4

6

TIP of the DAY

90 tens is the same as 900 and 90 hundred thousands is 9,000,000.

DAY 2



1. Which term can be put in the blank to make the statement true?

$$8,500,000 = 85 \underline{\hspace{2cm}}$$

5.NBT.1

2. What is 15,928 divided by 10^2 ?

5.NBT.2

3. Write a number that is $\frac{1}{10}$ of the value of: $9(100,000) + 5(10,000) + 6(1,000) + 8(100) + 1(10) + 2\left(\frac{1}{10}\right) + 5\left(\frac{1}{100}\right)$

5.NBT.3

4. Write thirty-one hundred ten and eight hundredths in (A) standard form and (B) expanded form.

5.NBT.3

5. Write 354.109 in (A) expanded form and (B) in words.

5.NBT.3

6. Write a number sentence using a comparison symbol, 0.12 and 12 hundreds.

5.NBT.3

7

1. Complete the table below.

Ex. What is $\frac{4}{9}$ of 81?	$\frac{4}{9}$ of 81 \downarrow $\frac{4}{9} \times 81 = \frac{4 \times 81}{9} = \frac{324}{9} = 324 \div 9$ $= 36$
What is of $\frac{3}{5}$ of 35?	
What is of $\frac{5}{7}$ of $\frac{7}{10}$?	
What is of $\frac{2}{5}$ of $2\frac{1}{3}$?	

P

Stephanie is icing 30 cupcakes. She spreads mint icing on $\frac{1}{5}$ of the cupcakes. The rest will get vanilla frosting. Determine whether each statement is correct. Mark yes or no.

- A. 5 cupcakes have mint icing. yes no
- B. 24 cupcakes have vanilla icing. yes no
- C. $\frac{4}{5}$ of the cupcakes will have vanilla frosting. yes no

Name _____

9

Thirty

Fill in the bubble completely to show your answer.

16. Gla's bus route to school is $5\frac{1}{2}$ miles. The bus route home is $1\frac{3}{5}$ times as long. How long is Gla's bus route home? (CC.5.NE.6)

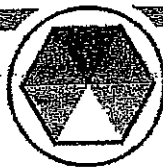
(A) $5\frac{3}{10}$ miles
(B) 8 miles
(C) $8\frac{1}{5}$ miles
(D) $17\frac{3}{5}$ miles

17. Carl's dog weighs $2\frac{1}{3}$ times what Judy's dog weighs. If Judy's dog weighs $35\frac{1}{2}$ pounds, how much does Carl's dog weigh? (CC.5.NE.6)

(A) $88\frac{3}{4}$ pounds
(B) $82\frac{5}{8}$ pounds
(C) $81\frac{2}{3}$ pounds
(D) 71 pounds

18. In a fifth grade class, $\frac{4}{5}$ of the girls have brown hair. Of the brown-haired girls, $\frac{3}{4}$ of the girls have long hair. What fraction of the girls in the class have long brown hair? (CC.5.NF.4a)

(A) $\frac{1}{20}$
(B) $\frac{1}{5}$
(C) $\frac{3}{5}$
(D) $\frac{1}{4}$



WEEK 13 • DAY 1



ARGOPREP.COM

10

1. What is the value of the expression:

$$\frac{1}{5} \div 8?$$

A. $\frac{1}{3}$

B. $\frac{1}{40}$

C. 3

D. 40

5.NF.7

4. Lucy, Jimmy and Karla equally shared $\frac{1}{2}$ of a pizza. Which fraction of the whole pizza did they each receive?

A. $\frac{2}{3}$

B. $\frac{1}{6}$

C. $\frac{1}{3}$

D. $\frac{1}{2}$

5.NF.7

2. There was $\frac{1}{8}$ of a gallon of juice left. If 3 children shared it, how many gallons would each child have?

A. $\frac{1}{24}$

B. 24

C. $\frac{1}{11}$

D. 11

5.NF.7

5. Cecelia had 4 dollars her mom gave her for fair tickets. If each ticket costs $\frac{1}{2}$ of a dollar, how many tickets could Cecelia purchase?

A. 1

B. 2

C. 4

D. 8

5.NF.7

3. What is the value of the expression:

$$12 \div \frac{1}{4}?$$

A. $\frac{1}{3}$

B. $\frac{1}{48}$

C. 3

D. 48

5.NF.7

6. Which statement is true about the product of $\frac{2}{2} \times 5$?

A. The product is greater than each factor.

B. The product is less than each factor.

C. The product is greater than $\frac{2}{2}$ but less than 5.

D. The product is equal to one of the factors.

5.NF.5



TIP of the DAY

Remember to divide by a fraction, you multiply by its reciprocal.

TIP of the DAY

If a kilogram of almonds were divided into 4 bags that contained the same amount of almonds, each of the 4 bags would weigh $\frac{1}{4}$ of a kilogram.

DAY 4



1. What is the value of the expression: $4 \div \frac{1}{5}$?

5.NF.7

2. If Leila and Joey walk a combined total of $\frac{1}{3}$ of a mile, and they walk the same distance, how far did each one walk?

5.NF.7

3. How many $\frac{1}{2}$ -cup servings are in 12 cups of oatmeal?

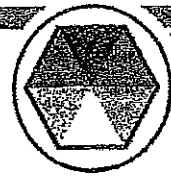
5.NF.7

4. There was $\frac{1}{9}$ of a pound of apples left. Three children shared the apples. (A) Write an equation to find A, the amount of apples each child would receive. (B) How many pounds of apples would each child have?

5.NF.7



WEEK 13 • DAY 4



ARGOPREP.COM

1. What is the value of the expression:

$$6 \div \frac{1}{5}?$$

A. 30

B. $\frac{5}{6}$

C. $1\frac{1}{5}$

D. $\frac{1}{30}$

5.NF.7

4. How many $\frac{1}{4}$ -cup servings are in 10 cups of pudding?

A. 40

B. 20

C. $2\frac{1}{2}$

D. 2

5.NF.7

2. If Eric, Murray and Devin walk a combined total of $\frac{1}{6}$ of a mile, how many miles did each one walk?

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{1}{9}$

D. $\frac{1}{18}$

5.NF.7

5. What is the value of the expression:

$$\frac{1}{3} \div 5?$$

A. 15

B. $\frac{1}{15}$

C. $1\frac{2}{3}$

D. $\frac{3}{5}$

5.NF.7

45

Queisha spent $\frac{1}{3}$ hour answering 9 homework questions for her history class. She spent the same amount of time on each question. What fraction of an hour did it take Queisha to answer each question?

A $\frac{1}{3}$

B $\frac{1}{9}$

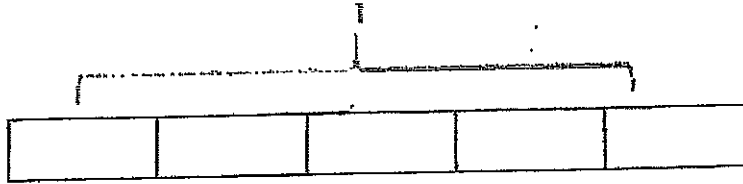
C $\frac{1}{12}$

D $\frac{1}{27}$

STOP

1. Draw a picture to show the division. Write a division expression. Then, express your answer as a fraction. The first one is started for you.

a. $1 \div 5 =$



Answer:

b. $3 \div 4$

Visual:

Answer:

c. $6 \div 4$

Visual:

Answer:

15

2. Six people share four sandwiches. Which of the following statements is true?

- a) To determine how much each person gets, we can use the expression $6 \div 4$.
- b) Each person will get a share that is larger than 1 whole sandwich.
- c) Each person will get $\frac{4}{6}$ of a sandwich.
- d) It is not possible to give each person an equal amount.

3. 4 cakes are shared with 3 people. How much cake does each person get?
Show your work.

Name : _____

Score : _____

Teacher : _____

Date : _____

16

Subtracting Mixed Numbers

★ only star questions! 😊

★ 1) $9\frac{1}{5} - 3\frac{6}{10} =$

★ 2) $8\frac{2}{10} - 3\frac{2}{3} =$

★ 3) $7\frac{4}{5} - 3\frac{1}{2} =$

★ 4) $8\frac{2}{4} - 2\frac{9}{10} =$

5) $7\frac{1}{3} - 2\frac{3}{10} =$

6) $5\frac{2}{10} - 4\frac{3}{4} =$

7) $8\frac{8}{10} - 1\frac{1}{2} =$

8) $5\frac{3}{5} - 3\frac{1}{10} =$

9) $9\frac{1}{10} - 4\frac{1}{2} =$

10) $8\frac{3}{10} - 4\frac{2}{3} =$

Name : _____

Score : _____

Teacher : _____

Date : _____

17

Subtracting Fractions and Whole Numbers

** only star questions*
☺

★ 1) $5 - \frac{1}{2} =$

★ 2) $7 - \frac{3}{10} =$

★ 3) $6 - \frac{1}{2} =$

★ 4) $2 - \frac{1}{2} =$

5) $6 - \frac{1}{2} =$

6) $9 - \frac{1}{4} =$

7) $7 - \frac{1}{10} =$

8) $4 - \frac{4}{5} =$

9) $4 - \frac{7}{10} =$

10) $2 - \frac{6}{10} =$



WEEK 7 • DAY 3



ARGOPREP.COM

13

1. What is the difference between $19\frac{1}{7}$ and 8?

A. $10\frac{1}{7}$

B. $10\frac{6}{7}$

C. $11\frac{1}{7}$

D. $17\frac{1}{7}$

5.NF.1

4. What is the product of 3,781 and 85?

A. 311,905

B. 319,485

C. 321,105

D. 321,385

5.NBT.5

2. What is $12\frac{3}{4} + 17\frac{1}{2}$?

A. $19\frac{4}{6}$

B. $25\frac{1}{2}$

C. $29\frac{1}{4}$

D. $30\frac{1}{4}$

5.NF.1

5. Find: $\frac{3}{8} + \frac{11}{12}$

A. $\frac{7}{10}$

B. $\frac{14}{24}$

C. $1\frac{7}{24}$

D. $1\frac{10}{24}$

5.NF.1

3. $19\frac{7}{8} + 23\frac{4}{5} = ?$

A. $43\frac{27}{40}$

B. $43\frac{7}{10}$

C. $42\frac{37}{40}$

D. $42\frac{7}{10}$

5.NF.1

6. What is $100 - 93\frac{8}{9}$?

A. $6\frac{1}{9}$

B. $6\frac{8}{9}$

C. $7\frac{1}{9}$

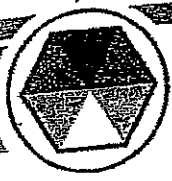
D. $7\frac{8}{9}$

5.NF.1



TIP of the DAY

When adding fractions, if the sum is an improper fraction, remember to make it a mixed number and add the whole number to the other whole numbers.



WEEK 10 • DAY 5 ASSESSMENT

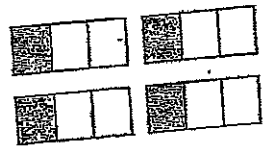


Sp. 1
+ Sp

1. What is the product of $\frac{3}{5} \times \frac{3}{10}$?

A. $\frac{9}{50}$ B. $\frac{9}{15}$
 C. $\frac{6}{15}$ D. $\frac{6}{50}$ 5.NF.4

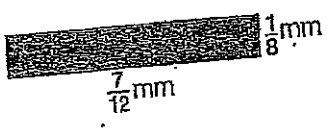
4. Which scenario could describe the model below?



- A. Jessica did homework for $\frac{1}{3}$ of an hour on 12 different days.
- B. James ate $\frac{1}{3}$ of 4 apples.
- C. It rained $\frac{1}{12}$ of an inch on 4 different days.
- D. Heather ate twelve $\frac{1}{3}$ -pound burgers. 5.NF.4

A
+

2. What is the area of the rectangle shown below?



- A. $\frac{7}{20}$ mm² B. $\frac{8}{20}$ mm²
 C. $\frac{7}{96}$ mm² D. $\frac{8}{96}$ mm² 5.NF.4

5. There are 80 ounces of turkey that 6 people will share. The number of ounces of turkey each person will get is between what 2 numbers?

- A. 10 and 11
 B. 11 and 12
 C. 12 and 13
 D. 13 and 14 5.NF.3

5

3. A small blanket measures $\frac{4}{5}$ yard long and $\frac{2}{3}$ yard wide. What is the area of the blanket?

- A. $\frac{6}{8}$ yd² B. $\frac{8}{8}$ yd²
 C. $\frac{8}{15}$ yd² D. $\frac{6}{15}$ yd² 5.NF.4



DAY 6 CHALLENGE QUESTION

A flag measures $\frac{5}{8}$ yard by $\frac{1}{3}$ yard. What is the area of the flag? 5.NF.4



WEEK 8 • DAY 1



ARGOPREP.COM

Mr.
to :
res
ans

1. If Roshana ate $\frac{1}{5}$ of the pizza and Reggie ate $\frac{1}{3}$. How much of the pizza remains?

- A. $\frac{6}{8}$
- B. $\frac{8}{5}$
- C. $\frac{7}{15}$
- D. $\frac{10}{15}$

5.NF.2

3. How much of a kilometer did Bonnie and Bryson run together?

- A. $\frac{5}{24}$
- B. $\frac{5}{12}$
- C. $\frac{2}{10}$
- D. $\frac{2}{8}$

5.NF.1

There were 4-person teams that would run 1 kilometer. Below you can see how much of a kilometer 3 of the teammates ran. Use the table below to answer questions 2 - 4.

Bryson	$\frac{1}{6}$
Bonnie	$\frac{1}{4}$
Bella	$\frac{1}{3}$

4. What fraction less did Bryson run than Bella?

- A. $\frac{1}{2}$
- B. $\frac{1}{3}$
- C. $\frac{1}{4}$
- D. $\frac{1}{6}$

5.NF.1

2. What fraction of a kilometer did the 4th team member need to run?

- A. $\frac{1}{2}$
- B. $\frac{1}{3}$
- C. $\frac{1}{4}$
- D. $\frac{1}{6}$

5.NF.2

5. What is 4,098 times 59?

- A. 29,382
- B. 225,392
- C. 241,782
- D. 245,882

5.NBT.5



TIP of the DAY

Word problems can be fun – imagine you are the one in the story!

21

52

Andy has a collection of movie DVDs. In Andy's collection,

- $\frac{3}{5}$ of the DVDs are "Action," and
- $\frac{1}{4}$ of the DVDs are "Comedy."

Andy said that $\frac{4}{9}$ of his collection is "Action" or "Comedy." Cynthia said that Andy made an error. Explain whether Andy is correct or incorrect and why.

What fraction of the DVDs in Andy's collection is not "Action" or "Comedy?"

Show your work.

Answer _____

GO ON

22

144050908

59. Hank and Debra each own two milking cows. One day, they milked their cows and compared the amount of milk the cows produced in that one day.

COW MILK PRODUCED

	Type of Cow	
	Jersey	Holstein
Hank's Cows (gallons of milk)	$4\frac{3}{4}$	$4\frac{1}{8}$
Debra's Cows (gallons of milk)	$5\frac{1}{2}$	$5\frac{2}{3}$

How many more gallons of milk did Debra's two cows produce on that day compared to Hank's two cows?

Show your work.

Answer _____ gallons

30

Mr. Davis is creating a spice mixture for a recipe.

23

- $\frac{2}{5}$ of the spice mixture was oregano
- $\frac{1}{3}$ of the spice mixture was basil

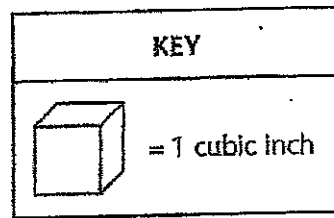
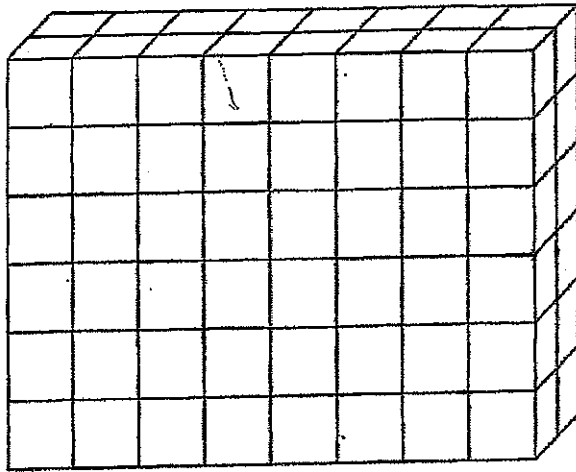
The remaining spice mixture was chili powder. What fraction of the total amount of spice mixture was oregano and basil?

- A $\frac{4}{15}$
- B $\frac{3}{8}$
- C $\frac{5}{8}$
- D $\frac{11}{15}$

GO ON

Amir used cubes to make the right rectangular prism below.

241

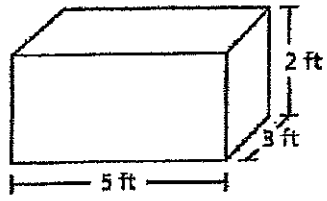


He then made a smaller right rectangular prism using $\frac{1}{2}$ the total number of cubes. What was the volume, in cubic inches, of the smaller right rectangular prism?

Answer _____

25

47 A toy company uses the box shown below to package wooden cubes.



Each wooden cube has a volume of $\frac{1}{8}$ cubic foot. In total, how many wooden cubes will fit in the box?

Show your work.

Answer _____ wooden cubes

GO ON

26

44 At the Middleton School festival, a tent covers a rectangular space $30\frac{1}{2}$ yards long and $9\frac{1}{3}$ yards wide. What is the area, in square yards, covered by the tent?

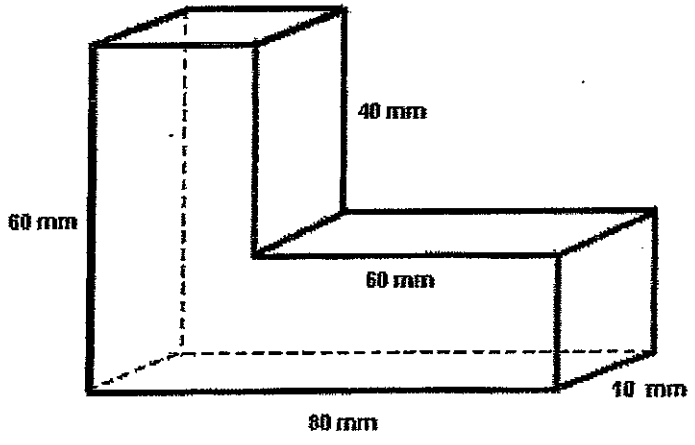
Show your work.

Answer _____ square yards

GO ON

The box below is the design for a unique planter. Jada decomposes the figure so that she can find the total volume of the planter.

- a. Deconstruct the figure into two prisms.
- b. Record the dimensions of each prism you have created.
- c. Find the total volume of the prism



Dimensions of prism A:

L =
W =
H =

Dimensions of prism B:

L =
W =
H =

Total Volume of the prism:

48 Arrange the numbers below so that they are listed in numerical order from least to greatest.

42.978 42.097 43.996 43.001 41.405

The number 41.674 is added to the list. Between which two numbers should it be placed?

Answer between _____ and _____

