## Welcome to 3rd Grade!

The following is a list of **supplies** you will need for September:

- 2, 2-pocket folders
- 3 marble notebooks (NO BINDERS- they DO NOT fit)
- 1 Agenda/Planner to write homework in
- Earbuds/headphones ARE A MUST
- 1 mesh/material zip up pencil holder (No boxes!)
- 2 packs of #2 pencils (name on boxes)
- 2 highlighters
- 2 pencil erasers
- Box of colored pencils OR crayons
- 4 glue sticks
- 1 pair of child-safe scissors
- 1 box of tissues
- 1 container of baby wipes
- 2 rolls of paper towels
- Spill-proof, plastic, WATER bottle (LABEL WITH NAME)

## Test Title: envmath\_3\_13-16\_OCBA

Charlent Names		
Student Name:		
B-4		
Date :		

## Question 1

Each week, Laura walks around the lake for 4 hours and she walks around the block or 2 hours. How many total hours does she walk in 4 weeks? Enter your answer in the box.

hours

Question 2a  $\frac{2}{6}$  of a shape is shown below.



How many  $\frac{2}{6}$ 's do you need to make 1 whole?

2 0

0 3

0

0 6

## **Question 2b**

## Part B

Which picture represents the whole shape?





0



0



0



## Question 3

Use properties of multiplication to show why 4  $\times$  50 = 8  $\times$  25. Enter your answers in the boxes.

4 × 50 = 4 × ( × 25) = (4 × ) × 25 = × 25

Question 4

Which number line shows  $\frac{2}{5}$ ?









## **Question 5**

Find the difference 639 – 347. Enter your answer in the box.

## Question 6a

## Part A

Four friends want to equally share 1 pizza.

What fraction of the pizza will each friend get?

0 4

0 4/4

0 1/4

0 18

## **Question 6b**

## Part B

If 2 more friends join the group, what fraction of the pizza would each friend get?

0 6 1

O 1/6

 $\frac{1}{2}$ 

0 1

## Question 7

Find 458 + 521.

Use place value to find the sum.

Enter your answers in the boxes.

	_	stion 8 thew wants to put a mirror and 4 posters on his bedroom walls.
	The	mirror costs \$20, and the posters are \$8 each.
		much will Matthew spend in all?
	Ente	r your answer in the box.
	\$	
	0	stion 9
	What	do a rectangle and trapezoid always have in common? Select all that apply.
		number of sides
		side lengths
		angle measures
	_	
		right angles
		number of angles
	_	
_		
		on 10 sum of 140 and 60. Enter your answer in the box.
	a the	Sam of 2 to and oof 2 had year answer in the 2 and

Sop She	estion 11a hie is making a rectangular pen fo plans to put a fence around the po h comer has a fence post.			
Par Wha	t A at is the perimeter of the pen?			
0	10 feet		0	14 feet
0	18 feet		0 .	20 feet
Par How	estion 11b t B v many fence posts will Sophie nee wer in the box.	ed? Draw a	picture	to help solve the problem. Enter your
	posts			
<b>Part</b> Whic	stion 12a A h addition problems require regrou t all that apply.	uping?		
	265 + 428			361 + 618
	737 + 462	•		365 + 477

489 + 428

## **Question 12b**

Which addition problems do NOT require regrouping? Select all that apply.

775 + 428 581 + 678

147 + 452 365 + 477

412 + 226

## **Question 13**

Liam plants green beans in  $\frac{2}{6}$  of his garden and sweet corn in  $\frac{1}{3}$  of his garden. Liam says  $\frac{2}{6}$  and  $\frac{1}{3}$  are equivalent fractions. Is he correct?

Ö

No, the wholes might be different.

No,  $\frac{2}{6}$  and  $\frac{1}{3}$  do not line up on the

number lines.

0

Yes,  $\frac{2}{6}$  and  $\frac{1}{3}$  are the same distance from 0 when the wholes are equal.

No,  $\frac{2}{6}$  and  $\frac{1}{3}$  are not the same distance from 0.

## **Question 14**

Leo is buying milk for his family for a week. He said he bought 7 kilograms of milk. Is his answer reasonable? Explain.

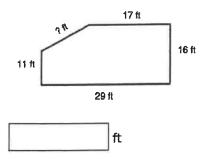
0

- No, Leo probably meant 7 millimeters instead of kilograms. 0
- No, Leo probably meant 7 liters instead of kilograms. O
- No, Leo probably meant 70 kilograms instead of 7 kilograms. 0
- Yes, Kilograms is the correct unit for milk. 0

## **Question 15a**

## Part A

A community is putting up a fence around the pool area as shown below. The manager measured all of the sides except one. She used 86 feet of fencing. What is the length of the side the manager did not measure? Enter your answer in the box.



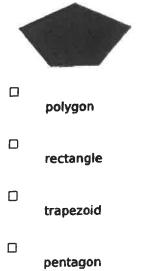
## **Question 15b**

## Part B

The perimeter of the rectangular community park is also 86 feet. What could the dimensions of the community park be?

- 20 feet by 23 feet
- 10 feet by 23 feet
- 15 feet by 28 feet
- 18 feet by 25 feet
- 17 feet by 28 feet

**Question 16**Select all of the terms that can describe the figure.



parallelogram

## Question 17a

Owen plans to eat dinner at 6:30 P.M.

It takes 20 minutes to make a salad, 45 minutes to make spaghetti, and 5 minutes to set the table. Owen wants to set the table and make the salad before making the spaghetti. What time should he set the table? Use a number line to help find the answer.

## Part A

Order the steps used to solve the problem in order from 1 to 3, where 1 is the first step and 3 is the last step.

Enter 1, 2, or 3 in each answer box. Numbers may only be used once.

	and a sold removed may only be used once.
Step to get 5:20.	: It takes Owen 5 minutes to set the table, so subtract 5 minutes from 5:25
Step 6:30 to get 5:45.	: It takes Owen 45 minutes to make spaghetti, so subtract 45 minutes from
Step 5:45 to get 5:25.	: It takes Owen 20 minutes to make the salad, so subtract 20 minutes from

## **Question 17b**

## Part B

What time should Owen set the table?

0 5:10 0 5:20

0 5:25

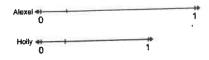
0 5:30

## **Question 18a**

0

Alexei draws a number line showing  $\frac{1}{4}$ . Holly does the same.

Which answer explains why their number lines look different?



- 0 Alexei's number line is shorter.
- 0 Holly's number line shows sixths.
- The distance from 0 to 1 is different.
- They are not different. Both show  $\frac{1}{4}$ .

## **Question 18b**

If Alexei draws  $\frac{3}{8}$  on her number line and Holly draws  $\frac{5}{8}$  on her number line, whose fraction will be greater? Explain.

0

- Alexei's fraction will be greater 0 because her number line is longer.
- Holly's fraction will be greater because  $\frac{5}{8} > \frac{3}{8}$ .
- 0 Their fractions will be equal in length because the larger fraction is on the smaller number line.
- 0 It is impossible to tell whose fraction will be greater because comparisons are only valid when the fractions refer to the same whole.

_	
	hour minutes `
	*
Oue	estion 20
	figure is a parallelogram, but it is NOT a square.
Why	? Select all that apply.
	The figure is not a square because it does not have straight line sides.
	The figure is not a square because it does not have 4 right angles.
	The figure is not a square because it has 4 sides.
	·
_	The figure is not a square because it does not have 4 equal sides.
	THE HIGHE IS HOL & Square because it does not have 4 equal states.

## **Question 21a**

## Part A

Which fractions are closer to 1 than to 0? Select all that apply.

 $\Box$   $\frac{1}{8}$ 

□ <u>5</u> 8

 $\frac{\Box}{8}$ 

 $\Box$   $\frac{6}{8}$ 

□ <u>3</u>

## **Question 21b**

## Part B

Explain your reasoning.

- O If the numerator is greater than 1, the fraction is closer to 1 than to 0.
- O If the numerator is equal to 1, the fraction is closer to 1 than to 0.
- O Because  $\frac{1}{2}$  is halfway between 0 and 1, any fraction greater than  $\frac{1}{2}$  is closer to 1 than to 0.
- O Because  $\frac{3}{4}$  is closer to 1 than to 0, I chose all the fractions that are equal to or greater than  $\frac{3}{4}$ .

## **Question 22**

Clara says she should use a measuring cup to find the amount of salt to add to her bowl of soup. Is this reasonable? Explain.

- O Yes, the amount of salt added to the bowl of soup would be more than a cup.
- O No, a measuring cup is too large. She should use a pan balance instead.
- O No, a measuring cup is too large. She should use a teaspoon instead.
- O Yes, a cup of salt is a reasonable amount to add to a bowl of soup.

## **Question 23a**

Sheila draws three rectangles with a perimeter of 14.

## Part A

Which of the following sizes of rectangles could Sheila have drawn? Select all that apply.

□ 2 × 5

□ 3 × 5

□ 3 × 4

□ 2 x 4

□ 1 × 6

## **Question 23b**

## Part B

Which generalization can be made about the rectangles Sheila could have drawn?

- O It is possible for the rectangles to have the same perimeter and the same area.
- O It is possible for the rectangles to have the same perimeter but different areas.
- O It is possible for the rectangles to have a different perimeter and the same area.
- It is possible for the rectangles to have different perimeters and a different area.

## **Question 24a**

The perimeter of rectangle Q is 20 inches. The perimeter of rectangle R is 22 inches. Both rectangles have the same area.

## Part A

Which of the following could be the dimensions of the rectangles?

O Rectangle Q: 2 × 10

O Rectangle  $Q: 4 \times 6$ 

Rectangle  $R: 2 \times 11$ 

Rectangle  $R: 8 \times 3$ 

Rectangle Q: 4 × 5
Rectangle R: 8 × 3

- O Rectangle  $Q: 3 \times 6$ 
  - Rectangle R:  $4 \times 8$

Question 24b
Part B
What is the area of each rectangle? Enter your answer in the box.
square inches
Question 25
Talia buys 45 grams of nutmeg and 78 grams of cinnamon.
She uses the least number of weights to balance the total mass of the spices.
Which combination of weights does Talia use? Enter your answers in the boxes.
Willett Combination of Weights does raile about and you. and the more and about
0
100g 10g 1g
100-gram weight(s)
10-gram weight(s)
20 g.am wagnata,
5.
1-gram weight(s)
¥ ·
Question 26a
Part A
Georgia is making a square sign for her bedroom door. The length of one side is 9 inches.
What is the perimeter of the sign? Enter your answer in the box.
inches

Ä

## Question 26b

## Part B

Georgia makes a rectangular sign for the other side of her bedroom door. She wants the rectangular sign to have different side lengths but the same perimeter as the square sign. Which of the following could be the dimensions of the rectangular sign?

0	10	inches	by	8	inches
---	----	--------	----	---	--------

_					4 1
0	10	inches	hν	30	inches
$\sim$		11101100	~ 7		11101100

- O 8 inches by 7 inches
- O 7 inches by 10 inches

## Question 27

A quadrilateral with at least 2 same length sides and 4 right angles is NOT a trapezoid. Why?

- O Trapezoids cannot have more than 1 right angle.
- O Trapezoids cannot have any sides of the same length.
- O Trapezoids are not quadrilaterals.
- O Trapezoids cannot have more than 2 right angles.

## **Question 28a**

Amelia biked  $\frac{4}{6}$  mile on Thursday and  $\frac{3}{6}$  mile on Friday.

Which day did she bike farther? Use the number line to help solve the problem.



0

Thursday

0

Friday

0

She biked the same distance both days.

0

Not enough information is given.

## **Question 28b**

Amelia then biked  $\frac{4}{8}$  mile on Saturday. She says that the distance she biked on Thursday is the same distance she biked on Saturday. Is she correct? Explain.

- are the same.
  - Yes.  $\frac{4}{8} = \frac{4}{6}$  because the numerators O No.  $\frac{4}{8} > \frac{4}{6}$  because the denominators are different.
- are different.
- No.  $\frac{4}{8} < \frac{4}{6}$  because the denominators O Yes.  $\frac{4}{8} = \frac{4}{6}$  because the numerators and denominators are the same.

## **Question 29a**

## Part A

Byron has two quilt squares.

Which best describes the relationship between the shaded areas of the squares?

Quilt Square 1



## Quitt Square 2



$$\bigcirc \frac{1}{4} > \frac{1}{8}$$

$$O \qquad \frac{1}{4} = \frac{2}{8}$$

$$\bigcirc \frac{1}{4} > \frac{2}{8}$$

O Not enough information is given.

## Question 29b

## Part B

Suppose 1 more small square of Quilt Square 1 is shaded. Which fraction describes the total amount of Quilt Square 2 that would need to be shaded for the two squares to have the same shaded area?

$$\circ$$
  $\frac{6}{8}$ 

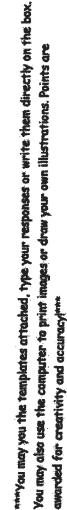
Question 30a Part A						
A soccer tourna	ment starts at 7	:00 A.M. and	d ends at 3:30	) P.M.		
How long does t	the tournament	last?				
Enter your answ	er in the boxes.					
	hours	mi	nutes			
Question 30b Part B						
During the socce	er tournament, t	hev have a	one-hour lunc	h break. How	long does the	tournament
last without the		,			-	
	1.		nutos			

# **Gereal Box Report**

What you will need:

A book of your choosing and...

- 1. An empty cereal box.
- 2. Markers, crayons or other art supplies.
- 3. Canstruction paper, white or light colored paper.
  4. Tape or glue.



that is related to the title of the book and sounds like a cereal. Do NOT use the exact title of the book. You may want to look at the attached page of cereal boxes for some ideas. Choose a diso use a light colored wrapping paper. You should probably create your cover before gluing it FRONT OF BOX: Use a piece of white or light colored paper to cover the cereal bax. You may onto your box. Include the name of the cereal and a picture. Invent a name for the cereal shape for your cereal as well as colors and ingredients that all relate to the book

For example: For The Cat in the Hat, you might invent a cereal called Crunchy Cats, a toasted oat cereal in the shape in mini hats.

RIGHT SIDE: Make a list of ingredients that includes the story elements, character and

Characters and Setting: Under the heading, "Ingradients," list the main characters and write a where and when the story takes place You can use the template on the attached sheet or you sentence about each one. Then describe the setting. Make sure to include information about

may do it your own way, as long as the box is covered with white or light colored paper. Just make sure you include the main characters and the setting.



LEFT SIDE: Design a game that is based on the story. It can be a puzzle, a word search, a words scramble, a maze, a crossword puzzle, a hidden picture illustration, or any other fun activity that might be on a cereal box. Make sure it includes information and or vocabulary from the book.

BACK OF BOX: Write a summary that describes the main problem and the solution of the book.

Try to use words that "grab" the readers' attention and make them want to buy your careal.

You can use the attached template or you may do it your own way. Make sure to include the important details from the beginning, middle and end of the story.

TOP OF BOX: Include the title, author, illustrator, and number of stars you would give this book if you were a book critic. The maximum number of stars would be 5. You can use the template or create the top of the box yourself as long as you include all the things listed above.

PRIZE: (optional) Cereal boxes often include a prize. Your prize must be something the main character. Character could have used in the book or something that reminds you of the main character. You can even include a picture of the prize on the front of your box to let your reader know what's inside your box.

## TEMPLATE

TOP OF BOX: Write the title of your book, the author and illustrator, Color the stars to show how you rate this book. Cut out the box below and place it on the top of your cereal box.

	_Illustrator-	
Title of Book:	Author:	なななななない

Scannod with CamScannor

# Cereal Box Report Templates

BACK OF THE BOX: First, write a summary that describes the important events of the beginning, middle and end. Remember to include the main problem and the solution. Cut out the box below and place on the back of your box. Make sure you use your <u>NEATEST</u> handwriting.

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

it out this box and place in on the right side of your cereal box.	s box and place in on the righ your cereal box.
,	O

STANDENING TO

CHARACTERS

# Characters

List the main characters and write a sentence about each one. For example, if you were using the story "Charlie and the Chocolate Factory," you might include the following characters:

Charlie Bucket: He is a poor boy who finds the last golden ticket and wins a trip to Willy Wonka's Chocolate Factory.

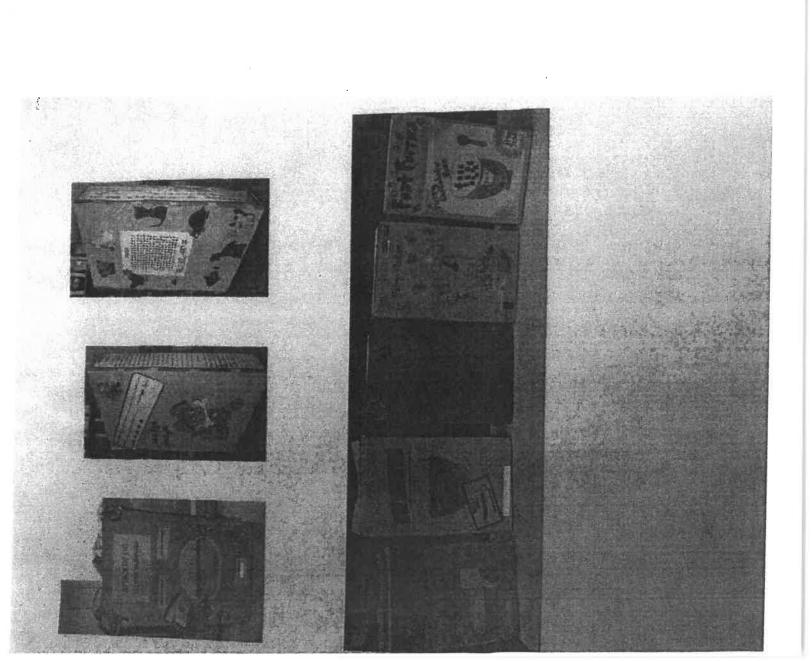
Willy Wonlig: He is the lively owner of the chocolate factory who allows six children and a member of their family to spend a day at his magical factory.

## Settino

Use complete sentences to tell where the story takes place You may find that there is more than one setting in the story. For example, if you were using the story "Charlie an the Chocolate Factary," you might write:

The beginning of the story takes place in Charlie Bucket's very small house that he shares with his large family. Once Charlie finds the golden ticket and wins the contest, the rest of the story takes place in Willy Wonka's amazing chocolate factory.

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															SETTOMS:							
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# Cereal Box Book Report Rubric

Other to	Points Earned	Points possible
Projected was submitted on time.		9
Cereal box is neat, colorful and attractive.		IC)
The front and the top of the box are thought fully done. The top includes the necessary information. The front of the box demonstrates creativity, includes a cereal name related to the title and on original illustration.		<b>5</b>
The back of the box includes a complete and accurate summary.		8
The right side of the box is complete and accurate.		<b>13</b>
The left side of the box is neat, thoughtfully done and is related to the book.		12
Spelling, punctuation and grammar are correct.		9
TOTAL		8

ame:	f Book:
2	le of
	Title