EGYPTIAN AMERICAN INTERNATIONAL SCHOOL
ELEMENTARY MATH DEPARTMENT
2018/2019
G5

Name : …….. Date : …… Class : ……

Revision sheet

Omar is making a scale model of the Statue of Liberty for a report on New York City. The Statue of Liberty is 305 feet tall measuring from the ground to the tip of the torch. If the model is $\frac{1}{100}$ the actual size of the Statue of Liberty, how tall is the model?

_____ feet

For 2a–2d, choose Yes or No to indicate whether the product is correct.

2a.	$0.62 \times 10 = 62$	○ Yes	○ No
2b.	$0.53 \times 10 = 5.3$	○ Yes	○ No
2c.	$0.09 \times 100 = 9$	○ Yes	○ No
2d.	$0.60 \times 1{,}000 = 60$	○ Yes	○ No

Nicole is making 1,000 bows for people who donate to the library book sale. She needs a piece of ribbon that is 0.75 meter long for each bow. How many meters of ribbon does Nicole need to make the bows? Explain how to find the answer.

Tenley is making a square frame for her painting. She is using 4 pieces of wood that are each 2.75 feet long. How much wood will Tenley use to make the frame?

_____ feet

Which problems will have two decimal places in the product? Mark all that apply.

(A) 5×0.89 (B) 7.4×10 (C) 5.31×10^0

(D) 6.1×3 (E) 3.2×4.3

Jonah drives his car to and from work. The total length of the trip to and from work is 19.2 miles. In August, Jonah worked 21 days. How many miles in all did Jonah drive to and from work that month? Show your work.

Use the numbers in the boxes to complete the number sentences.
A number may be used more than once.

8.99	89.9	899

$29 \times 31 =$ ☐

$29 \times 3.1 =$ ☐

$0.29 \times 31 =$ ☐

$2.9 \times 31 =$ ☐

GO DEEPER Melinda, Zachary, and Heather went to the mall to shop for school supplies. Melinda spent $14.25 on her supplies. Zachary spent $2.30 more than Melinda spent. Heather spent 2 times as much money as Zachary spent. How much did Heather spend on school supplies?

$_____

The cost of admission to the Baytown Zoo is $10.50 for each senior citizen, $15.75 for each adult, and $8.25 for each child.

A family of 2 adults and 1 child plan to spend the day at the Baytown Zoo. How much does admission for the family cost? Explain how you found your answer.

At a tailor shop, it costs $6.79 to shorten a pair of pants and 4 times as much to mend a dress. Choose the answer that correctly completes the statement.

It would cost Lisa [$19.47 / $27.16 / $33.95] to shorten one pair of pants and mend one dress.

For 19a–19d select True or False for each statement.

19a. The product of 1.5 and 2.8 is 4.2. ○ True ○ False

19b. The product of 7.3 and 0.6 is 43.8. ○ True ○ False

19c. The product of 0.09 and 0.7 is 6.3. ○ True ○ False

19d. The product of 0.79 and 1.5 is 1.185. ○ True ○ False

Joaquin lives 0.3 mile from Keith. Layla lives 0.4 times as far from Keith as Joaquin. How far does Layla live from Keith? Write an equation to solve.

_____ mile

Brianna is getting materials for a chemistry experiment. Her teacher gives her a container that has 0.15 liter of a liquid in it. Brianna needs to use 0.4 of this liquid for the experiment. How much liquid will Brianna use?

_____ liter

Rita is hiking along a trail that is 13.7 miles long. Sofar she has hiked along one-tenth of the trail. How far has Rita hiked?

_____ miles

Use the numbers on the tiles to complete each number sentence. You can use a tile more than once or not at all.

$35.5 \div 10^0 =$ ☐

$35.5 \div 10 =$ ☐

$35.5 \div 10^2 =$ ☐

·	0	3	5

Emma, Brandy, and Damian will cut a rope that is 29.8 feet long into 3 jump ropes. Each of the 3 jump ropes will be the same length. Write a division sentence using compatible numbers to estimate the length of each rope.

Karl drove 617.3 miles. For each gallon of gas, the car can travel 41 miles. Select a reasonable estimate of the number of gallons of gas Karl used. Mark all that apply.

(A) 1.5 gallons

(B) 1.6 gallons

(C) 15 gallons

(D) 16 gallons

(E) 150 gallons

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Donald bought a box of golf balls for $9.54. There were 18 golf balls in the box. About how much did each golf ball cost?

Luke cut down a tree that was 28.8 feet tall. Then he cut the tree into 6 equal pieces to take it away. What is the length of each piece?

_____ feet

Les is sending 8 identical catalogs to one of his customers. If the package with the catalogs weighs 6.72 pounds, how much does each catalog weigh?

_____ pound(s)

Isabella is buying art supplies. The table shows the prices for the different items she buys.

Isabella spends $2.25 on poster boards. How many poster boards does she buy?

_____ poster boards

Art Supplies	
Item	**Price**
Glass beads	$0.28 per ounce
Paint brush	$0.95
Poster board	$0.75
Jar of paint	$0.99

Hank has a large bag of trail mix thatweighs 7.8 pounds. He uses the mix in the large bag to make bags each containing 0.6 pound of mix. How many bags containing 0.6 pound can be made?

_____ bags

Percy buys tomatoes that cost $0.58 per pound. He pays $2.03 for the tomatoes.

Part A

Percy estimates he bought 4 pounds of tomatoes. Is Percy's estimate reasonable? Explain.

Part B

How many pounds of tomatoes did Percy actually buy? Show your work.

Who drove the fastest? Select the correct answer.

A Harlin drove 363 miles in 6 hours.

B Kevin drove 435 miles in 7 hours.

C Shanna drove 500 miles in 8 hours.

D Hector drove 215 miles in 5 hours.

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Rodrigo practiced playing the guitar $15\frac{1}{3}$ hours over the past 3 weeks. He practiced for $6\frac{1}{4}$ hours during the first week and $4\frac{2}{3}$ hours during the second week. How much time did Rodrigo spend practicing during the third week? Use the numbers and symbols to write an equation that represents the problem. Then solve the equation. Symbols may be used more than once or not at all.

$15\frac{1}{3}$	$6\frac{1}{4}$	$4\frac{2}{3}$	x	$=$	$+$

Practice time during third week: _____ hours

Liam bought $5\frac{7}{8}$ pounds of steak. He used $2\frac{1}{16}$ pounds of the steak for a cookout. For 3a–3c, fill in each blank.

3a. Rounded to the closest benchmark, Liam bought about ☐ pounds of steak.

3b. Rounded to the closest benchmark, Liam used about ☐ pounds of steak for the cookout.

3c. Liam has about ☐ pounds of steak remaining after the cookout.

Write $\frac{2}{5}$ and $\frac{1}{3}$ as equivalent fractions using a common denominator.

☐ and ☐

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Jill brought $2\frac{1}{3}$ boxes of carrot muffins for a bake sale. Mike brought $1\frac{3}{4}$ boxes of apple muffins. What is the total number of boxes of muffins Jill and Mike brought to the bake sale?

_____ boxes of muffins

Joshua uses a rule to write the following sequence of numbers.

$\frac{1}{6}, \frac{1}{2}, \frac{5}{6}$, _____, $1\frac{1}{2}$

What rule did Joshua use? ☐

What is the missing number in the sequence? ☐

Alana bought $\frac{3}{8}$ pound of Swiss cheese and $\frac{1}{4}$ pound of American cheese. Which pairs of fractions are equivalent to the amounts Alana bought? Mark all that apply.

- (A) $\frac{24}{64}$ and $\frac{8}{64}$
- (B) $\frac{6}{16}$ and $\frac{4}{16}$
- (C) $\frac{12}{32}$ and $\frac{6}{32}$
- (D) $\frac{15}{40}$ and $\frac{10}{40}$

GO DEEPER Four students spent time volunteering last weekend. The table shows how much time each student spent volunteering.

Volunteering	
Student	Time (in hours)
Amy	$4\frac{5}{6}$
Beth	$6\frac{1}{2}$
Victor	$5\frac{3}{4}$
Cal	$5\frac{2}{3}$

Match each pair of students with the difference between how much time they spent volunteering.

Amy and Victor •	• $\frac{3}{4}$ hour
Cal and Beth •	• $\frac{11}{12}$ hour
Beth and Victor •	• $\frac{5}{6}$ hour

For 14a–14d, tell which expressions require you to rename mixed numbers before you can subtract. Find each difference. Write each expression and the difference as an equation in the correct box.

14a. $2\frac{1}{3} - 1\frac{3}{4}$

14b. $1\frac{3}{4} - \frac{7}{8}$

14c. $5\frac{2}{3} - 2\frac{5}{8}$

14d. $6\frac{1}{5} - 2\frac{1}{3}$

Requires Renaming	Does Not Require Renaming

Tom exercised $\frac{4}{5}$ hour on Monday and $\frac{5}{6}$ hour on Tuesday.

Part A

Complete the calculations below to write equivalent fractions with a common denominator.

$\frac{4}{5} = \frac{4 \times \square}{5 \times \square} = \frac{\square}{\square}$ $\qquad$ $\frac{5}{6} = \frac{5 \times \square}{6 \times \square} = \frac{\square}{\square}$

Part B

How much time did Tom spend exercising on Monday and Tuesday combined? Explain how you found your answer.

Part C

How much longer did Tom spend exercising on Tuesday than he spent on Monday? Explain how you found your answer.

Logan bought 15 balloons. Four-fifths of the balloons are purple. How many of the balloons are purple? Draw a model to show how you found your answer.

_____ purple balloons

Doreen lives $\frac{3}{4}$ mile from the library. Sheila lives $\frac{1}{3}$ as far away from the library as Doreen. For 11a–11c, choose Yes or No to answer each question.

11a. Does Doreen live farther from the library than Sheila? ○ Yes ○ No

11b. Does Sheila live $\frac{1}{4}$ mile from the library? ○ Yes ○ No

11c. Does Sheila live twice as far from the library than Doreen? ○ Yes ○ No

Taniqua took a test that had 20 multiple-choice questions and 10 True/False questions. She got $\frac{9}{10}$ of the multiple-choice questions correct, and she got $\frac{4}{5}$ of the True/False questions correct.

12a. How many multiple-choice questions did Taniqua get correct?

_____ multiple-choice questions

12b. How many True/False questions did Taniqua get correct?

_____ True/False questions

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Write each multiplication expression in the correct box.

$\frac{4}{5} \times 1\frac{1}{8}$ $\frac{1}{3} \times \frac{4}{5}$ $3 \times \frac{4}{5}$ $\frac{4}{5} \times \frac{4}{5}$ $\frac{8}{8} \times \frac{4}{5}$ $\frac{4}{5} \times \frac{2}{2}$

Product is equal to $\frac{4}{5}$.	Product is greater than $\frac{4}{5}$.	Product is less than $\frac{4}{5}$.

In a fifth grade class, $\frac{4}{5}$ of the girls have brown hair. Of the brown-haired girls, $\frac{3}{4}$ of them have long hair. Of the girls with long brown hair, $\frac{1}{3}$ of them have green eyes.

Part A

What fraction of the girls in the class have long brown hair?

_____ of the girls

Part B

What fraction of the girls in the class have long brown hair and green eyes? Explain how you found your answer.

_____ of the girls

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Ruby conducted a survey and found that $\frac{5}{6}$ of her classmates have a pet and $\frac{2}{3}$ of those pets are dogs. What fraction of her classmates has dogs?

Write a number from the number tiles in each box to complete the calculations shown below. You may use numbers more than once or not at all.

$$\frac{5}{6} \times \frac{2}{3} = \frac{5 \times \square}{6 \times \square} = \frac{\square}{\square} = \frac{\square}{\square}$$

1	2	3	4
5	9	10	18

_____ of her classmates

Robbie is using the recipe below to make chicken noodle soup. He plans to make 6 batches of the soup. He has $\frac{2}{3}$ teaspoon of black pepper.

Chicken Noodle Soup

4 cups chicken broth

1 medium carrot, sliced

1 stalk celery, sliced

$\frac{1}{2}$ cup uncooked egg noodles

$\frac{1}{8}$ teaspoon ground black pepper

1 cup shredded cooked chicken

Write an expression that Robbie can use to determine how much black pepper is needed for 6 batches.

_____

Does Robbie have enough black pepper for 6 batches of the soup? Explain your reasoning.

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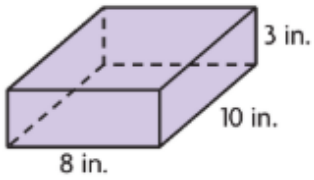
Fran drew a triangle with no congruent sides and 1 right angle. Which term accurately describes the triangle? Mark all that apply.

(A) isosceles
(B) scalene
(C) acute
(D) right

Jose stores his baseball cards in a box like the one shown.



Use the numbers and symbols on the tiles to write a formula that represents the volume of the box. Symbols may be used more than once or not at all.

V	3	8	10	=	+	×	−	÷

_____

Whatis the volume of the box? _____ cubic inches

Mr. Delgado sees this sign while he is driving. For 3a–3b, choose the values and term that correctly describe the shape Mr. Delgado saw.

3a. The figure has [3 / 4 / 5] sides and [0 / 2 / 3] vertices.

3b. All of the sides are congruent, so the figure is [not a polygon / a regular polygon / not a regular polygon].

Chuck is making a poster about polyhedrons for his math class. He will draw figures and organize them in different sections of the poster.

Part A

Chuck wants to draw three-dimensional figures whose lateral faces are rectangles. He says he can draw prisms and pyramids. Do you agree? Explain your answer.

Part B

Chuck says that he can draw a cylinder on his polyhedron poster because it has a pair of bases that are congruent. Is Chuck correct? Explain your reasoning.

Javier drew the shape shown. For 7a–7b, choose the values and term that correctly describe the shape Javier drew.

7a. The figure has [6 / 7 / 8] sides and [6 / 8 / 12] angles.

7b. The figure is a [regular octagon / regular heptagon / regular quadrilateral].

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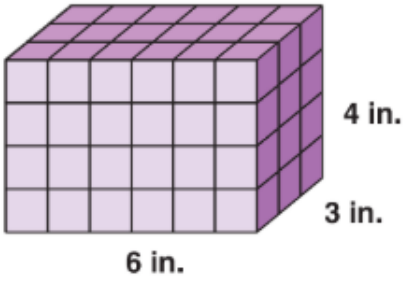
Victoria used 1-inch cubes to build the rectangular prism shown. Find the volume of the rectangular prism Victoria built.



_____ cubic inches

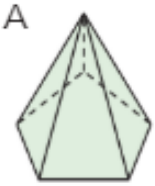
Nathan drew a scalene, obtuse triangle. For 9a–9c, choose Yes or No to indicate whether the figure shown could be the triangle that Nathan drew.

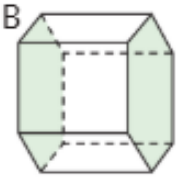
9a.  ○ Yes ○ No

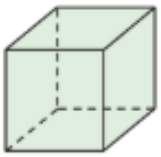
9b.  ○ Yes ○ No

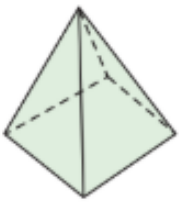
9c.  ○ Yes ○ No

Write the letter in the box that correctly describes the three-dimensional figure.

A 

B 

C 

D 

Prism	Pyramid

Ken keeps paper clips in a box that is the shape of a cube. Each side of the cube is 3 inches. What is the volume of the box?

_____ cubic inches