TEST NAME: **Math Gr 5 FAIM 2016 Form 2-B**
TEST ID: **1549469**
GRADE: **Fifth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **State Interim Assessment**

Student:

Class:

Date:

Instructions

Use your Response Document to answer question 18.

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1. On Saturday, 15,598 people attended a music festival. How does the value represented by the 5 in the hundreds place compare with the value of the 5 in the thousands place?

   A. The value in the hundreds place is 10 times as much as the value in the thousands place.

   B. The value in the hundreds place is one-tenth as much as the value in the thousands place.

   C. The value in the hundreds place is 100 times as much as the value in the thousands place.

   D. The value in the hundreds place is one one-hundredth as much as the value in the thousands place.

2. Andrea is working with 2 sequences and identifying numbers they have in common.

   - Sequence A is generated by adding 10 to the previous number in the sequence. Sequence A is 5, 15, ..., 85, 95.
   - Sequence B is generated by subtracting 7 from the previous number. Sequence B is 70, 63, ..., 14, 7.

   Which number is common to both sequences?

   A. 28

   B. 35

   C. 42

   D. 55

3. What is this number written in standard form?

$$5\times100+2\times10+7\times1+4\times\frac{1}{10}+2\times\frac{1}{100}+6\times\frac{1}{1{,}000}$$

4. Pattie got a package in the mail. The package was in the shape of a rectangular prism. The base was in the shape of a square with a length of 8 inches. The height of the package was 5 inches. What is the volume of the package in cubic inches?

5. The Bailey family started a trip with a tank $\frac{7}{8}$ full of gas. The family finished the trip with a tank $\frac{1}{4}$ full of gas. If no gas was added to the tank, how much gas was used for the trip?

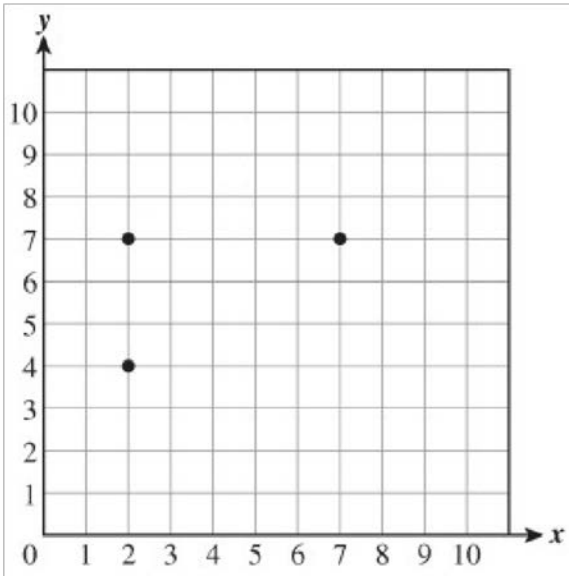
A. $\frac{5}{8}$ tank

B. $\frac{3}{4}$ tank

C. $\frac{9}{8}$ tanks

D. $\frac{3}{2}$ tanks

6. Donato is making a rectangle on a coordinate grid. He has plotted three of the four vertices on the coordinate grid shown below.



Which point best represents one possible location of the fourth vertex of the rectangle?

A. (4, 7)

B. (4, 8)

C. (7, 4)

D. (8, 4)

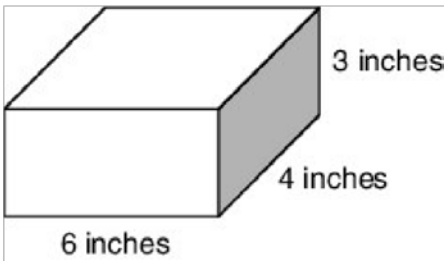
7. The soccer team is raising money for their uniforms for next year. Each uniform costs $38. How much money do they need to raise to pay for 23 uniforms? Show all your work.

8. Stan was measuring a storage shed in the shape of a rectangular prism to see how many 3 feet by 5 feet by 2 feet boxes it would take to fill the shed. He found that the storage shed had a measure of 960. Which unit of measurement should be used with 960?

9. Which of these signs, <, >, or =, completes the given expression?

4.75 ☐ 4.421

10. A rectangular prism is shown below.



Which expression shows how to find the volume of the prism?

A. $6 \times 4 \times 3$

B. $6 + 4 + 3$

C. $(6 \times 4) + (3 + 4)$

D. $(6 \times 4) + (4 \times 3)$

11. Ms. Mackey had a block of clay. She gave each of 3 students an equal part of the block of clay. She then asked each of them to cut the part of clay she gave them into 5 equal-sized cubes. What fraction of Ms. Mackey's block of clay does each of the cubes represent?

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

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

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

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

12. Kaley is making salads for a party. Each salad requires both $\frac{1}{6}$ pound of fruit and $\frac{1}{8}$ pound of nuts. If Kaley has 9 pounds of fruit and 6 pounds of nuts, how many salads can she make that have both fruit and nuts in them? Show your work or explain how you got your answer.

13. Keegan and his friend spent two weeks during the summer earning money by helping their neighbors with various projects. During the first week they earned a total of $76, and during the second week they earned a total of $64.

Part A. If they split the money evenly, what expression can Keegan write to find how much money he will get?

Part B. Keegan decides to buy a new baseball jersey for $27 and a hat for $15. Write an expression that can be used to find how much money he will have left after he makes the purchase.

14. What is the value of $2(3+5)-2\times4+1\times5$?

15. A preschool teacher uses 4 quarts of juice for snack time for the children at the preschool. Each child gets $\frac{1}{6}$ of a quart. How many students are in the preschool?

16. Which number is less than four hundred and forty-four thousandths?

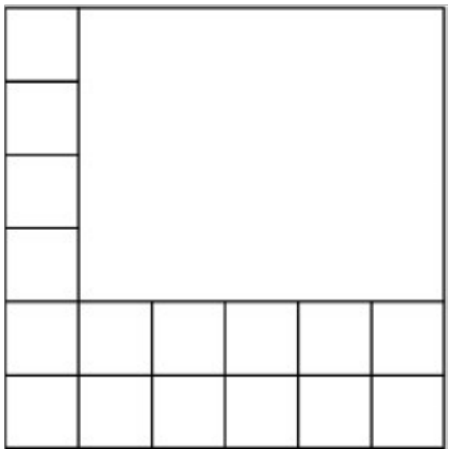
A. 400.044

B. 400.040

C. 400.440

D. 400.404

17. Ms. Kennedy needs to finish tiling her project. She covered part of her project with square tiles. Each square tile has a side length equal to $\frac{1}{4}$ inch.



What is the area, in square inches, of the unfinished part of her project?

A. 20 square inches

B. 5 square inches

C. $2\frac{1}{4}$ square inches

D. $1\frac{1}{4}$ square inches

18. Tony owns a pizza restaurant. He weighs each topping before putting it on a pizza so that all of the pizzas are the same. The amounts of each topping he uses for a small pizza are listed below. Tony uses twice as much of each topping for a large pizza.

- black olives: 0.18 pound
- cheese: 0.45 pound
- green pepper: 0.12 pound
- mushrooms: 0.19 pound
- onion: 0.15 pound
- pepperoni: 0.24 pound
- sausage: 0.21 pound

Part A. Tony gets an order for three large pizzas with cheese, pepperoni, and onion. What is the total weight of the toppings he will use to fill this order? Show your work or explain your answer.

Part B. On graph paper, draw a decimal model to show the amount of onion that Tony will use to fill the order in part A. Explain how the model represents the amount of onion needed for the order.

Part C. Tony gets an order for two small pizzas with every topping. How much more sausage than green pepper will Tony use to fill the order? Show your work or explain your answer.

Part D. The cheese Tony uses comes in packages that each weigh 7 pounds. Tony thinks that he can make 15 small cheese pizzas with each package of cheese. Explain whether Tony is correct or incorrect.

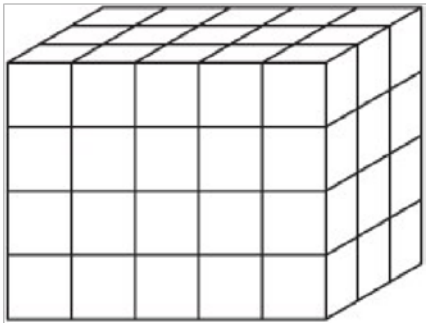
Place an "X" in the answer box below.

Answer the question on the Response Document provided.

Click next.

19. What is 821.813 rounded to the nearest hundredth?

20. Natalia keeps her packets of flower seeds in a box. The box is shaped like the rectangular prism below. Each unit cube has a volume of 1 cubic inch.



Write an expression that can be used to find the volume, in cubic inches, of Natalia's box.