ETS

NJ DOE Unit 3_Grade 5

Name _____ Period_____ Date _____

Grade 5 Unit 3 Model Curriculum Assessment

1. Jason wrote this number: 91,458,237
Kylie wrote this number: 1,285,307

The digit 8 in Jason's number represents how many times as much as the digit 8 in Kylie's number?

a. $\frac{1}{10}$ times

b. 1 times

c. 10 times

d. 100 times

2. Describe how the place value of the digit 6 in the number 0.068 is related to the place value of the digit 6 in the number 0.68.

_____

_____

_____

_____

3. Population of Fairview: 293,705
Population of Baytown: 935,172

Based on the populations given above, place a check mark in the oval to indicate whether the statements about the populations of Fairview and Baytown are true or false.

	True	False
The place value of the digit 9 in the population of Fairview is 10 times the place value of the digit 9 in the population of Baytown.	◯	◯
The place value of the digit 7 in the population of Baytown is $\frac{1}{10}$ times the place value of the digit 7 in the population of Fairview.	◯	◯
The place value of the digit 3 in the population of Baytown is $\frac{1}{10}$ times the place value of the digit 3 in the population of Fairview.	◯	◯

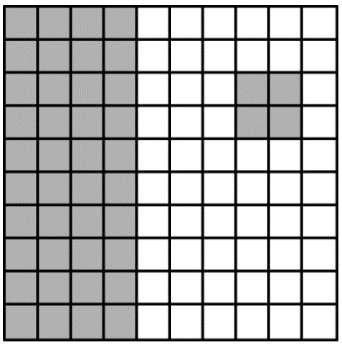
4. Use the prices of the notebook and pencil below to fill in the blanks.

Price of notebook: $2.97
Price of pencil: $0.29

The value of the digit 2 in the price of the _____ is $\frac{1}{10}$ times the value of the digit 2 in the price of the _____.

The value of the digit 9 in the price of the notebook is _____ times the value of the digit 9 in the price of the pencil.

5. The grid below represents one whole.



Which of the following operations represents the part of the grid that is shaded?

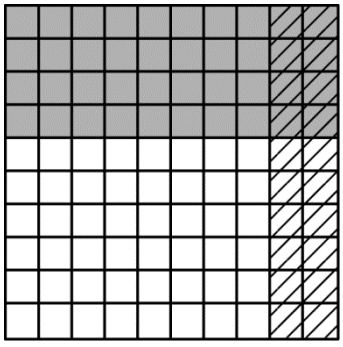
a. 0.4 + 0.04

b. 0.4 – 0.04

c. 0.4 × 0.04

d. 0.4 ÷ 0.0

6. Use the grid below to find the missing number in the equation.

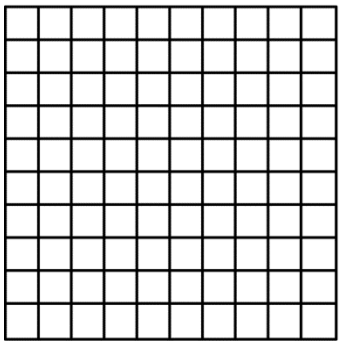


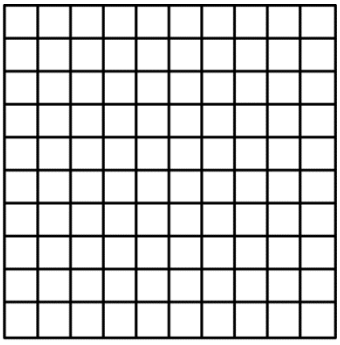
0.4 x 0.2 = _____

7. Which symbol (<, =, or >) belongs in the box below to make a true comparison? Write your answer in the box.

$$0.3 \times 0.1 \quad \square \quad 0.3 + 0.1$$

Use shading on the grids below to explain your answer.





8. What is $0.45 \div 4.5$? Show your work or explain your answer.

9. What is $235.48 - 12.7$? Show your work.

10. Paul bought 4 meters of wood trim. He used 72 centimeters to frame a photo of his dog and three times that length to frame a photo of a friend. What length, in meters, of wood trim remained after Paul made the frames?

    a. 1.12 meters

    b. 2.88 meters

    c. 112 meters

    d. 288 meters

11. Mrs. Jones bought 6 kilograms of rice. After filling 10 containers with the same amount of rice in each, she had 860 grams remaining. How much rice, in grams, is in each of the 10 containers?

    _____

12. Carla needs 8 inches of ribbon for each craft she makes. What is the greatest number of crafts Carla can make using 30 feet of ribbon?

    _____

In questions 13-16, add or subtract each. Write your answers as proper fractions or mixed numbers.

13. $4\frac{2}{3} - 1\frac{4}{5} =$

14. $6\frac{7}{8} + \frac{3}{2} =$

15. $12\frac{1}{10} - 5\frac{5}{6} =$

16. $\frac{5}{6} - \frac{3}{4} =$

17. Lou painted $\frac{3}{8}$ of his house in August, and he painted $\frac{2}{5}$ more of the house in September.

Part A: Did Lou paint more or less than $\frac{1}{2}$ of his house in August and September? Use estimation to explain how you know.

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_____

_____

_____

Part B: What fraction of his house did Lou paint altogether in August and September? Show your work.

_____

18. Sara and Harry are putting together a puzzle. Sara put together $\frac{7}{12}$ of the puzzle pieces. Harry put together $\frac{7}{24}$ of the puzzle pieces. What fraction of the total number of puzzle pieces has **NOT** been used?

_____

19. Tom makes a cake for a class party. The recipe calls for $\frac{5}{8}$ cup of orange juice and $\frac{5}{12}$ cup of water. Can Tom use a one-cup container to hold both the orange juice and water at the same time? Explain your thinking.

20. For each description in the table below, place a check mark in the oval to indicate whether the quantity is less than 1 or more than 1.

Description	Quantity	Less than 1	More than 1
4 pizzas shared equally among 7 children	Number of pizzas per child	⬭	⬭
5 packs of crayons shared equally among 3 students	Number of packs of crayons per student	⬭	⬭
30 boxes of pencils shared equally among 24 containers	Number of boxes of pencils per container	⬭	⬭

21. Draw a line to connect each fraction or mixed number to the division expression that it equals. Not all division expressions will be used.

Fraction or Mixed Number	Division Expression
$\frac{3}{14}$ ▪	▪ $2 \div 3$
	▪ $4 \div 3$
$\frac{3}{4}$ ▪	▪ $3 \div 4$
	▪ $11 \div 4$
$2\frac{3}{4}$ ▪	▪ $23 \div 4$
	▪ $3 \div 14$

22. Maria had 9 liters of lemonade. She poured all of the lemonade into 6 pitchers so that there was an equal amount in each pitcher. How many liters of lemonade did Maria pour into each pitcher?

_____

In questions 23-25, use the standard algorithm to multiply each. Show all work.

23. $809 \times 17 =$

24. $876 \times 128 =$

25. $2,875 \times 142 =$