EM4 Grade 5 Unit 5: Unit Assessment (Version 2- English)

Student Name: _____

Student ID: _____

Date: _____

1 Find a common denominator for the pairs of fractions given.
Rewrite the fractions as equivalent fractions with a common denominator.

a. $\frac{4}{5}$ and $\frac{7}{15}$

b. $\frac{2}{3}$ and $\frac{3}{4}$

2 Describe the strategy you used to find a common denominator for $\frac{2}{3}$ and $\frac{3}{4}$.

3 Use equivalent fractions to solve.

a. $\frac{4}{5} - \frac{7}{15} =$ ____

b. $\frac{2}{3} + \frac{3}{4} =$ ____

4 Use paper and pencil to solve the problem.

Estimate. Then solve. Show your work.
Use your estimate to check whether your answer makes sense.

$6\frac{4}{9} + 4\frac{2}{3} = ?$

Estimate:

Answer:

5 Use paper and pencil to solve the problem.

Estimate. Then solve. Show your work.
Use your estimate to check whether your answer makes sense.

$8\frac{6}{9} - 2\frac{2}{12} = ?$

Estimate:

Answer:

6 Jeff walked $3\frac{3}{5}$ miles on Wednesday and $2\frac{4}{5}$ miles on Thursday.
How many miles did he walk on Wednesday and Thursday all together?

Number model:

Estimate:

Jeff walked ____ miles.

7 a. What is $\frac{2}{8}$ of 32?

b. What is $\frac{5}{8}$ of 32?

c. Explain how you can use your answer to Part a to help you solve Part b.

8 Solve.

$15 * \frac{2}{3} =$ ___

9 Solve.

$36 * \frac{2}{9} =$ ___

10 Look at the problem $27 * \frac{5}{9}$.

a. Will the product be greater than 27? How do you know?

b. Will the product be greater than $\frac{5}{9}$? How do you know?

c. Solve. $27 * \frac{5}{9} =$ ____

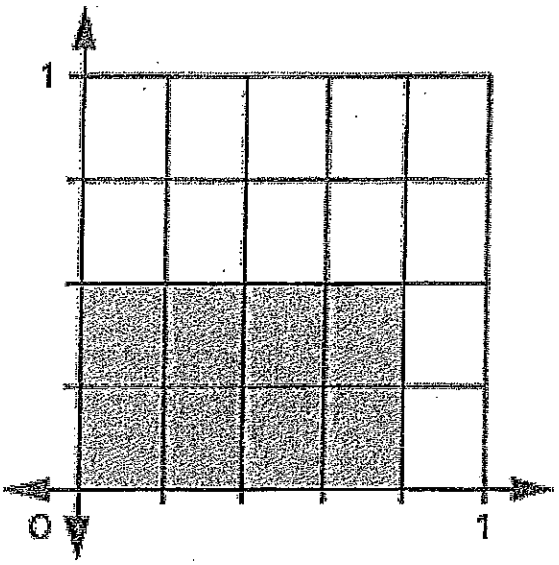
11 Use paper and pencil to solve the problem.

Fold a piece of paper to help you solve the problem $\frac{1}{3}$ of $\frac{1}{2}$.
Then draw lines and shade the rectangle below to show what you did.

$\frac{1}{3}$ of $\frac{1}{2}$ is ____.

12 Write a number story that matches the expression $\frac{4}{5} * 25$. Then solve the number story.

13 a. What are the dimensions of the shaded rectangle in the area model below?



__ units by __ units

b. What is the area of the shaded rectangle?

__ square units

c. Write a multiplication number sentence that matches the area model.

__

14 Use the fraction multiplication algorithm to solve.

$\frac{3}{7} * \frac{2}{5} =$ __

15 Use the fraction multiplication algorithm to solve.

$\frac{2}{8} * \frac{4}{5} =$ __

16 Use paper and pencil to solve the problem.

Write a division number model with a letter for the unknown. Then draw a picture to solve the problem. Write a multiplication number sentence to show how you checked your answer.

Carlotta has $\frac{3}{4}$ gallon of paint. She wants to pour it into 8 smaller containers, putting the same amount in each container. How much paint should she put in each container?

Division number model:

Carlotta should pour ____ gallon of paint into each container.

Check:

17 Use paper and pencil to solve the problem.

Write a division number model with a letter for the unknown. Then draw a picture to solve the problem. Write a multiplication number sentence to show how you checked your answer.

Danielle is running a 2-mile race around a track. If each lap around the track is $\frac{1}{4}$ mile long, how many laps will she run?

Division number model:

Danielle will run ____ laps.

Check: