REVIEW FOR THE COMPETENCE TEST

Competence test topics

1. Fractions
   a. Addition
   b. Subtraction
   c. Multiplication
   d. Division
   e. Mixed numbers
   f. Improper fractions
   g. Simplification
   h. Equivalent fractions
2. Area of Quadrilaterals
3. Common multiples
4. Basic operations with whole numbers (1st term)

Multiply by Three-Digit Numbers

1. There are 235 photographers who take pictures for the city newspaper. For yesterday's issue, each photographer took 346 pictures. How many pictures were there in all?

Addition of fractions

2. The penguin nursery is open two times a day: 2/3 hour at noon and 5/12 hour in the afternoon. How much time is the penguin nursery open every day in total?

Least common multiple (LCM)

3. A man smiles at his beautiful wife every 3 seconds while the wife smiles back at him every 6 seconds. When will both husband and wife smile at each other at the same time?

Division by Two-Digit Numbers

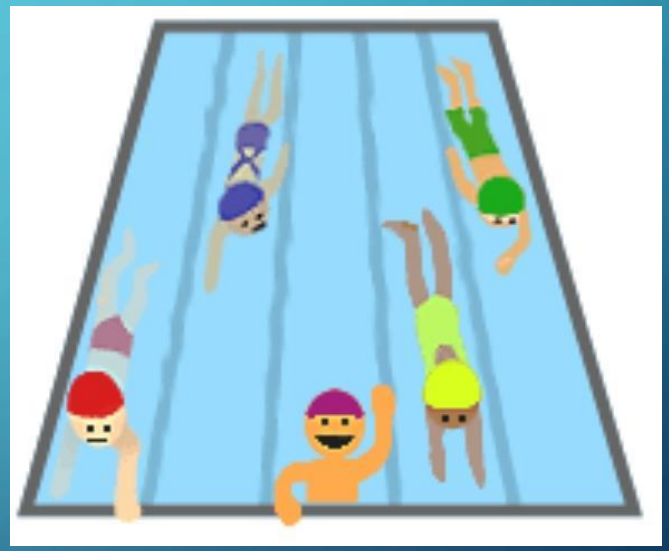
4. An art class uses 3744 ounces of clay making ceramic pots. Each student makes 12 pots. How many students are in the class?

Subtract Fractions: Unlike Denominators

5. Marvin has 9/4 yard of material. He uses 2/6 to cover a chair. How much yard is he left with?

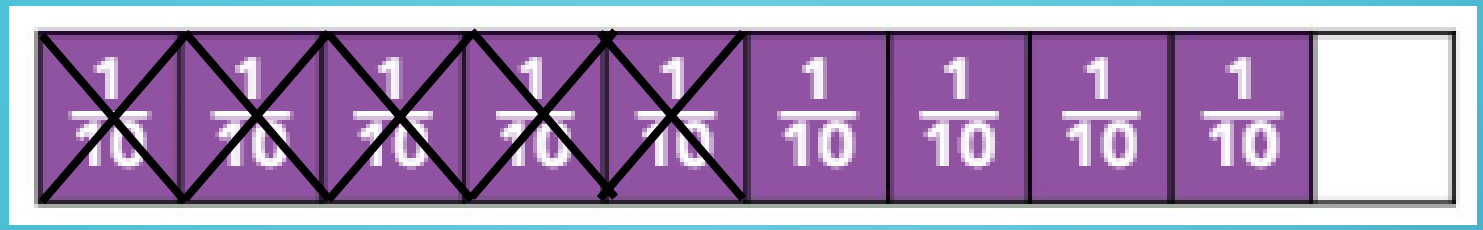
Addition of fractions with like denominators

6. Stefanie swam four-fifteenths of a lap in the morning and seven-fifteenths of a lap in the evening. How much did Stefanie swim that day?



Model Subtraction of Fractions

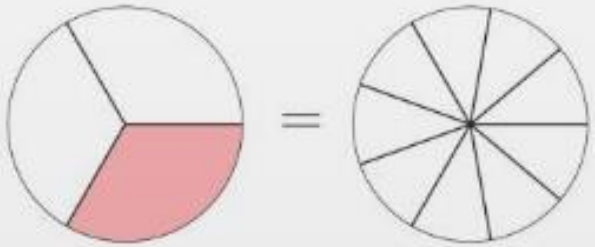
7.



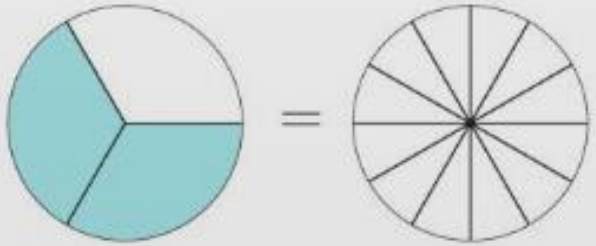
Equivalent fractions

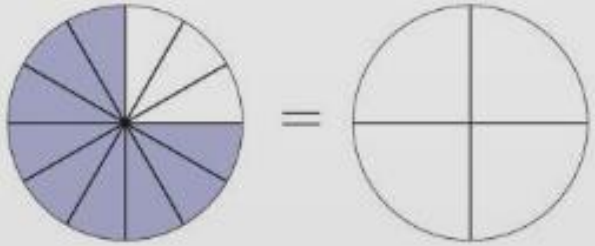
8.

Shade the second model exactly the same and determine the equivalent fractions.

1.  = $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

2.  = $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

3.  = $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

4.  = $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

Multiply Fractions and Whole numbers

9. Rishi spent ¾ of an hour each day for 2 days working on his science project. How much time did Rishi spend in total on his project?

Addition of mixed numbers

10. Tom bought $2\frac{1}{4}$ kilograms of bananas and $1\frac{1}{3}$ kilograms of grapes. How many kilograms of fruit did Tom buy in total?

Division of fractions

11. A chocolate bar is 3/4 of an inch long. If it is divided into pieces that are 3/8 of an inch long, then how many pieces is that?

Area of quadrilaterals

12. A postcard is $5\frac{5}{8}$ inches long and $3\frac{3}{5}$ inches wide. What is the area of the postcard?