PRE-TEST

3 Fractions and Mixed Numbers

Vocabulary

Fill in the blanks.
Use the words in the box.

1. $\frac{2}{3}$ and $\frac{1}{3}$ are _____.

2. 3 and 5 are _____.

3. $\frac{4}{5}$ and $\frac{8}{10}$ are _____.

4. $\frac{1}{4}$ and $\frac{1}{5}$ are _____.

> unlike fractions
>
> equivalent fractions
>
> prime numbers
>
> like fractions

Concepts and Skills

Write your answer in the space given.

5. Circle the like fractions in the set.

   $\frac{3}{10}$ $\frac{2}{7}$ $\frac{7}{10}$ $\frac{3}{4}$

6. Express each fraction in simplest form.

   a. $\frac{6}{10} = \dfrac{\square}{\square}$ **b.** $\frac{6}{18} = \dfrac{\square}{\square}$

7. Find the missing denominator in each fraction.

   a. $\frac{3}{8} = \dfrac{12}{\square}$ **b.** $\frac{16}{20} = \dfrac{4}{\square}$

8. Circle the prime number.

   6   18   23

9. Circle the composite number.

   5   9   47

10. Circle the unlike fractions in the set.

   $\dfrac{2}{7}$ $\dfrac{3}{8}$ $\dfrac{1}{3}$ $\dfrac{5}{8}$

11. Express each improper fraction as a mixed number by using the division rule.

   a. $\dfrac{17}{3}$ **b.** $\dfrac{23}{20}$

Add. Express the sum in simplest form.

12. $\dfrac{1}{3} + \dfrac{1}{12}$

13. $\dfrac{5}{8} + \dfrac{1}{4} + \dfrac{1}{2}$

Subtract. Express the difference in simplest form.

14. $\dfrac{7}{9} - \dfrac{1}{3}$

15. $3 - \dfrac{1}{2} - \dfrac{1}{6}$

Express each fraction as a decimal.

16. $\dfrac{6}{10} =$ _____

17. $\dfrac{74}{100} =$ _____

Problem Solving

Solve. Show your work.

18. Linus has a cake. He gives $\frac{3}{5}$ of the cake to Fred and $\frac{1}{10}$ of the cake to Ron. What fraction of the cake does Linus have?

19. Harris has $\frac{4}{5}$ kilogram of raisins. He buys another $\frac{3}{10}$ kilogram of raisins. How many kilograms of raisins does he have now?