**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period \_\_\_\_\_\_\_\_**

**Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Fraction Cruncher**

**Part A:** Circle any and all answers that apply

1. What is the numerator of a fraction?

a. The bottom part of a fraction, found below the line. c. The number of the fraction.

b. The name of the fraction. d. The top part of the fraction, found above the line.

2. What is the denominator of a fraction?

a. The bottom part of a fraction, found below the line. c. The number of the fraction.

b. The name of the fraction. d. The top part of the fraction, found above the line.

3. To add fractions:

a. The numerators must be the same. d. The top and the bottom is added.

b. The top is added and the bottom is not. e. The denominators must be the same.

c. The bottom is added and the top is not.

4. To divide fractions:

a. The numerators must be the same. c. The denominators must be the same.

b. The top of the dividend is divided by the top d. The top of the dividend is divided by the top of

 of the divisor and the bottom of the dividend the divisor and the bottom of the divisor is

 is divided by the bottom of the divisor. divided by the dividend.

5. To multiply fractions:

a. The numerators must be the same. c. The denominators must be the same

b. The top of the multiplicand is multiplied d. The top of the multiplicand is multiplied by the

 by the bottom of the multiplier and the top of top of the multiplier and the bottom of the

 the multiplier is multiplied by the bottom of multiplicand is multiplied by the bottom of the

 the multiplicand. multiplier.

6. To subtract fractions:

a. The numerators must be the same. d. The top and the bottom is subtracted.

b. The top is subtracted and the bottom is not. e. The denominators must be the same.

c. The bottom is subtracted and the top is not.

**Part B:** Solve each fraction problem. Show all your work. Leave any improper fraction answer as improper and make sure all proper fractions are in lowest terms. Box your answer.

|  |  |
| --- | --- |
| 7. $\frac{2}{5}+\frac{1}{5}=$ | 8. $\frac{1}{6}+\frac{2}{3}=$ |
| 9. $\frac{7}{8}+\frac{1}{4}+\frac{7}{16}=$  | 10. $\frac{1}{5}+\frac{11}{15}+\frac{2}{45}=$ |
| 11. $\frac{7}{8}-\frac{1}{4} =$ | 12. $\frac{9}{10}-\frac{1}{4} =$ |
| 13. $\frac{11}{9}-\frac{7}{9} =$ | 14. $\frac{5}{6}-\frac{1}{6} =$ |
| 15. $\frac{11}{9} ∙ \frac{7}{9} =$ | 16. $\frac{2}{5} ∙ \frac{1}{3} ∙ \frac{9}{2} =$  |
| 17. $\frac{2}{3} ∙ \frac{8}{9} =$  | 18. $\frac{11}{9} ÷ \frac{7}{9} =$ |
| 19. $\frac{2}{3} ÷ \frac{5}{8} =$ | 20. $\frac{5}{9} ∙ \frac{1}{15} =$ |