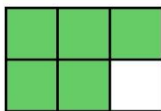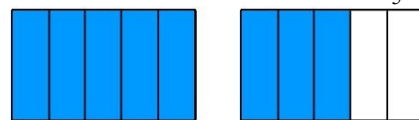NAME _____

1. How many one-fourths ($\frac{1}{4}$) are there in three-fourths ($\frac{3}{4}$)?

_____

2. How many one-sixths ($\frac{1}{6}$) are there in five-sixths ($\frac{5}{6}$)?

_____

3. How many one-fifths ($\frac{1}{5}$) are there in one and three-fifths ($1\frac{3}{5}$)?

_____

4. How many times will one-half ($\frac{1}{2}$) go into 3?

_____

5. How many times will one-fifth ($\frac{1}{5}$) go into 2?

_____

6. How many times will two-fifths ($\frac{2}{5}$) go into 2?

_____

7. Isha is making cookies and needs one-half cup of brown sugar. She does not have a one-half measuring cup in her kitchen, but she does have a one-fourth measuring cup. How many times will she need to fill the one-fourth cup to measure the one-half cup of brown sugar that she needs? _____

8. Andre decides to spend some of his savings on a set of new tires for his car. He takes one-third of his savings to purchase the tires. What fraction of his savings did he spend on each of the four new tires? _____

For # 9 – 17, divide and simplify if necessary.

9. $\frac{1}{5} \div \frac{1}{3} =$ _____

10. $\frac{1}{7} \div \frac{3}{5} =$ _____

11. $\frac{3}{8} \div \frac{2}{3} =$ _____

12. $\frac{8}{9} \div 8 =$ _____

13. $\frac{10}{13} \div 2 =$ _____

14. $3 \div \frac{1}{10} =$ _____

15. $6 \div \frac{2}{3} =$ _____

16. $1 \div \frac{1}{8} =$ _____

17. $\frac{3}{4} \div \frac{3}{4} =$ _____

For #18 – 20, simplify each complex fraction.

18. $\dfrac{\frac{2}{3}}{5} =$

19. $\dfrac{\frac{5}{7}}{4} =$

20. $\dfrac{\frac{4}{9}}{2} =$

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21. Three-fourths of a strawberry pie is left over after a party. If this remaining pie is shared evenly among six friends the next day, what fraction of the original pie did each of the six friends receive? _____

22. True or False: $\frac{3}{7}$ means 3 divided by 7. _____

23. True or False: $\frac{1}{12} \div 2$ is equivalent to $2 \div \frac{1}{12}$. _____

24. True or False: $\frac{7}{10} \div 4$ is equivalent to $\frac{7}{10} \bullet \frac{1}{4}$. _____

25. True or False: $\frac{2}{3}$ is the reciprocal of $1\frac{1}{2}$. _____

For #26 – 28, divide and simplify. Express your answer as an improper fraction.

26. $\frac{1}{5} \div \frac{1}{13} =$ _____

27. $\frac{2}{7} \div \frac{5}{21} =$ _____

28. $\frac{3}{4} \div \frac{9}{44} =$ _____

For #29 – 34, divide and simplify. Express your answer a mixed number or whole number.

29. $\frac{1}{5} \div \frac{2}{15} =$ _____

30. $\frac{2}{7} \div \frac{3}{63} =$ _____

31. $\frac{30}{4} \div \frac{6}{5} =$ _____

32. $\frac{33}{8} \div \frac{3}{4} =$ _____

33. $\frac{20}{6} \div \frac{30}{36} =$ _____

34. $\frac{45}{14} \div \frac{18}{49} =$ _____

35. A $1\frac{1}{2}$-mile relay race is being planned at Mill Middle School. Students will each run $\frac{1}{10}$ of a mile for their team. How many students will be needed on each team? _____

For #36 – 38, simplify each complex fraction. Express your answer a mixed number.

36. $\dfrac{\frac{12}{5}}{\frac{9}{20}} =$

37. $\dfrac{\frac{30}{25}}{\frac{42}{100}} =$

38. $\dfrac{1\frac{5}{16}}{\frac{28}{36}} =$

For #39 and 40, simplify each expression.

39. $\frac{2}{25} \bullet \frac{5}{2} \div \frac{8}{18} =$

40. $\frac{15}{60} \bullet \frac{25}{8} \bullet \frac{4}{30} \div \frac{6}{45} =$