

Name _____ Date _____ Class _____

LESSON

4-7

Practice A

Mixed Numbers and Improper Fractions

Determine whether each fraction is proper or improper.

1. $\frac{1}{4}$

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

3. $\frac{7}{4}$

4. $\frac{9}{3}$

5. $\frac{2}{3}$

6. $\frac{6}{2}$

Write each mixed number as an improper fraction.

7. $1\frac{1}{2}$

8. $1\frac{1}{3}$

9. $2\frac{1}{2}$

10. $1\frac{1}{4}$

11. $1\frac{2}{3}$

12. $2\frac{1}{3}$

Write each improper fraction as a mixed number or whole number. Tell whether your answer is a mixed number or whole number.

13. $\frac{4}{1}$

14. $\frac{6}{3}$

15. $\frac{4}{3}$

16. $\frac{5}{2}$

17. $\frac{7}{5}$

18. $\frac{3}{2}$

19. Mickey timed her speech at $\frac{12}{5}$ minutes. She cannot go over 2 minutes. Should she add more to her speech, or cut some lines? Explain.

20. In a frog-jumping contest, Jim's frog hopped $2\frac{1}{3}$ feet. Matthew's frog hopped $1\frac{2}{3}$ feet. Whose frog hopped $\frac{7}{3}$ feet?

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LESSON

Practice A

4-5 Equivalent Fractions

Find two equivalent fractions for the given fraction.

1. $\frac{1}{2}$

2. $\frac{1}{4}$

3. $\frac{1}{3}$

4. $\frac{1}{5}$

5. $\frac{2}{3}$

6. $\frac{3}{4}$

7. $\frac{1}{6}$

8. $\frac{2}{5}$

9. $\frac{10}{20}$

Find the missing numbers that makes the fractions equivalent.

10. $\frac{2}{4} = \frac{?}{8}$

11. $\frac{1}{3} = \frac{?}{9}$

12. $\frac{10}{5} = \frac{?}{1}$

13. $\frac{14}{4} = \frac{?}{2}$

14. $\frac{5}{6} = \frac{?}{12}$

15. $\frac{2}{7} = \frac{?}{21}$

Write each fraction in simplest form.

16. $\frac{2}{4}$

17. $\frac{3}{9}$

18. $\frac{8}{10}$

19. $\frac{4}{6}$

20. A recipe calls for $\frac{1}{2}$ cup of sugar and $\frac{4}{8}$ cup of flour. Does the recipe use more sugar or flour? Explain.

21. Frank and Antoine's teams played the same number of baseball games this season. Frank's team won $\frac{2}{3}$ of its games, and Antoine's team won $\frac{8}{12}$ of its games. Which team won the most games this season? Explain.

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Multiplying Fractions – Level 2

1. Multiply the numerators (top numbers).
2. Multiply the denominators (bottom numbers).
3. Make sure your answer is in simplest form.

For example, $\frac{2}{4} \times \frac{1}{4} = \frac{2 \times 1}{4 \times 4} = \frac{2}{16}$. To simplify, we would divide the numerator and denominator by 2 and our final answer would be $\frac{1}{8}$. Therefore, $\frac{2}{4} \times \frac{1}{4} = \frac{1}{8}$

Please multiply the following fractions making sure your final answer is in simplest form.

1. $\frac{1}{4} \times \frac{2}{3} = \text{—}$

7. $\frac{1}{7} \times \frac{7}{14} = \text{—}$

13. $\frac{1}{3} \times \frac{5}{6} = \text{—}$

2. $\frac{3}{5} \times \frac{1}{3} = \text{—}$

8. $\frac{4}{8} \times \frac{1}{8} = \text{—}$

14. $\frac{3}{6} \times \frac{2}{9} = \text{—}$

3. $\frac{1}{4} \times \frac{1}{4} = \text{—}$

9. $\frac{3}{9} \times \frac{1}{9} = \text{—}$

15. $\frac{1}{8} \times \frac{1}{8} = \text{—}$

4. $\frac{5}{6} \times \frac{1}{6} = \text{—}$

10. $\frac{7}{7} \times \frac{5}{14} = \text{—}$

16. $\frac{1}{4} \times \frac{4}{12} = \text{—}$

5. $\frac{1}{4} \times \frac{1}{8} = \text{—}$

11. $\frac{1}{10} \times \frac{10}{20} = \text{—}$

17. $\frac{2}{5} \times \frac{1}{8} = \text{—}$

6. $\frac{1}{5} \times \frac{5}{10} = \text{—}$

12. $\frac{3}{20} \times \frac{7}{10} = \text{—}$

18. $\frac{7}{9} \times \frac{1}{7} = \text{—}$

Name _____ Date _____ Class _____

LESSON

4-9

Practice A

Multiplying Fractions by Whole Numbers

Multiply. Write your answers in simplest form.

1. $1 \cdot \frac{1}{3}$

2. $3 \cdot \frac{1}{8}$

3. $7 \cdot \frac{1}{9}$

4. $3 \cdot \frac{1}{4}$

5. $4 \cdot \frac{2}{10}$

6. $3 \cdot \frac{1}{6}$

7. $2 \cdot \frac{2}{5}$

8. $10 \cdot \frac{1}{2}$

9. $5 \cdot \frac{1}{8}$

10. $4 \cdot \frac{1}{6}$

11. $5 \cdot \frac{1}{8}$

12. $3 \cdot \frac{2}{6}$

13. $7 \cdot \frac{1}{11}$

14. $3 \cdot \frac{1}{9}$

15. $5 \cdot \frac{1}{15}$

Evaluate $2x$ for each value of x . Write your answers in simplest form.

16. $x = \frac{1}{4}$

17. $x = \frac{1}{3}$

18. $x = \frac{1}{2}$

19. $x = \frac{1}{6}$

20. $x = \frac{1}{7}$

21. $x = \frac{1}{8}$

22. $x = \frac{2}{3}$

23. $x = \frac{3}{4}$

24. Richie is making 3 quarts of fruit punch for his friends. He must add $\frac{1}{2}$ cup sugar to make each quart of punch. How much sugar will he add?

25. Mrs. Flynn has 20 students in her class. One-fourth of her students purchased lunch tokens. How many of her students purchased tokens?
