

Lesson 6.5 Renaming Improper Fractions and Mixed Numbers

Express each improper fraction as a mixed number.

1. $\frac{11}{2} = \frac{10}{2} + \frac{1}{2}$

$$= 5 + \frac{\boxed{}}{2}$$

$$= 5 \frac{\boxed{}}{2}$$

2. $\frac{20}{3} = \frac{18}{3} + \frac{2}{3}$

$$= 6 + \frac{\boxed{}}{3}$$

$$= 6 \frac{\boxed{}}{3}$$

3. $\frac{13}{4} = \frac{\boxed{}}{4} + \frac{\boxed{}}{4}$

$$= 3 + \frac{\boxed{}}{4}$$

$$= 3 \frac{\boxed{}}{4}$$

4. $\frac{23}{5} = \frac{\boxed{}}{5} + \frac{\boxed{}}{5}$

$$= 4 + \frac{\boxed{}}{5}$$

$$= 4 \frac{\boxed{}}{5}$$

5. $\frac{27}{10} = \frac{\boxed{}}{10} + \frac{\boxed{}}{10}$

$$= \boxed{} + \frac{\boxed{}}{10}$$

$$= \boxed{}$$

6. $\frac{26}{7} = \frac{\boxed{}}{7} + \frac{\boxed{}}{7}$

$$= \boxed{} + \frac{\boxed{}}{7}$$

$$= \boxed{}$$

Name: _____

Date: _____

Express each improper fraction as a mixed number in simplest form.

7. $\frac{16}{6} = 2 + \frac{\boxed{}}{6}$

$= \boxed{}$

8. $\frac{20}{8} = 2 + \frac{\boxed{}}{8}$

$= \boxed{}$

9. $\frac{15}{2} = \boxed{}$

10. $\frac{18}{10} = \boxed{}$

11. $\frac{21}{9} = \boxed{}$

12. $\frac{15}{12} = \boxed{}$

13. $\frac{22}{7} = \boxed{}$

14. $\frac{36}{6} = \boxed{}$

15. $\frac{30}{4} = \boxed{}$

16. $\frac{42}{5} = \boxed{}$

17. $\frac{28}{13} = \boxed{}$

18. $\frac{48}{15} = \boxed{}$

Name: _____

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Express each mixed number as an improper fraction.

19. $3\frac{2}{3} = 3 + \frac{2}{3}$

$$= \frac{\boxed{}}{3} + \frac{2}{3}$$

$$= \frac{\boxed{}}{3}$$

20. $1\frac{1}{4} = 1 + \frac{1}{4}$

$$= \frac{\boxed{}}{4} + \frac{1}{4}$$

$$= \frac{\boxed{}}{4}$$

21. $2\frac{3}{5} = \frac{\boxed{}}{5} + \frac{3}{5}$

$$= \frac{\boxed{}}{5}$$

22. $2\frac{5}{6} = \frac{\boxed{}}{6} + \frac{5}{6}$

$$= \frac{\boxed{}}{6}$$

23. $2\frac{4}{7} = \frac{\boxed{}}{7} + \frac{\boxed{}}{7}$

$$= \frac{\boxed{}}{7}$$

24. $2\frac{2}{9} = \frac{\boxed{}}{9} + \frac{\boxed{}}{9}$

$$= \frac{\boxed{}}{9}$$

Name: _____

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Express each mixed number as an improper fraction.

25. $4\frac{1}{3} =$

26. $2\frac{3}{10} =$

27. $1\frac{2}{7} =$

28. $1\frac{5}{9} =$

29. $2\frac{1}{4} =$

30. $2\frac{5}{12} =$

31. $1\frac{3}{10} =$

32. $1\frac{2}{11} =$

33. $5\frac{4}{5} =$

34. $3\frac{8}{9} =$

35. $6\frac{1}{5} =$

36. $7\frac{2}{7} =$

14. $3\frac{5}{8}; \frac{29}{8}$
 16. $\frac{5}{3}; \frac{7}{3}; \frac{8}{3}$
 18. $\frac{11}{3}; \frac{13}{3}; \frac{29}{6}$
 20. $\frac{21}{5}; \frac{26}{5}; \frac{29}{5}$
 22. $\frac{17}{15}; \frac{9}{5}; \frac{7}{3}$

Lesson 6.5

1. 1; 1
 3. 12; 1; 1; 1
 5. 20; 7; 2; 7; $2\frac{7}{10}$
 7. $4; 2\frac{2}{3}$
 9. $7\frac{1}{2}$ 10. $1\frac{4}{5}$
 11. $2\frac{1}{3}$ 12. $1\frac{1}{4}$
 13. $3\frac{1}{7}$ 14. 6
 15. $7\frac{1}{2}$ 16. $8\frac{2}{5}$
 17. $2\frac{2}{13}$ 18. $3\frac{1}{5}$
 19. 9; 11 20. 4; 5
 21. 10; 13
 22. 12; 17
 23. 14; 4; 18
 24. 18; 2; 20
 25. $\frac{13}{3}$ 26. $\frac{23}{10}$
 27. $\frac{9}{7}$ 28. $\frac{14}{9}$
 29. $\frac{9}{4}$ 30. $\frac{29}{12}$
 31. $\frac{13}{10}$ 32. $\frac{13}{11}$
 33. $\frac{29}{5}$ 34. $\frac{35}{9}$
 35. $\frac{31}{5}$ 36. $\frac{51}{7}$

Lesson 6.6

1. $1\frac{2}{9}$ 2. $1\frac{2}{3}$ 3. $1\frac{3}{8}$ 4. $\frac{5}{6}$
 5. $1\frac{1}{2}$ 6. $1\frac{1}{12}$ 7. $1\frac{5}{12}$ 8. $1\frac{1}{2}$
 9. $1\frac{7}{12}$ 10. $1\frac{5}{8}$ 11. $2\frac{5}{12}$ 12. $3\frac{1}{9}$
 13. $1\frac{1}{5}$ 14. $4\frac{1}{3}$ 15. $2\frac{1}{2}$ 16. $3\frac{1}{4}$
 17. $5\frac{3}{10}$ 18. $2\frac{5}{14}$ 19. $1\frac{5}{12}$ 20. $4\frac{1}{9}$

Lesson 6.7

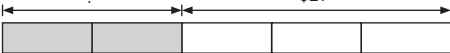
1. $\frac{2}{3}$ 2. $\frac{3}{5}$ 3. $\frac{1}{3}$ 4. $\frac{1}{3}$
 5. 30, 6, 24, 24 6. 40 7. 25
 8. 30 9. 16 10. 10 11. 12

Lesson 6.8

1. $90 - 40 - 20 = 30$
 $\frac{30}{90} = \frac{1}{3}$
 Arthur is left with $\frac{1}{3}$ of his money.
 2. $1 - \frac{3}{4} = \frac{1}{4}$
 $\frac{1}{4} \times 20 = 5$
 The baker is left with 5 pounds of sugar.
 3. a. $\frac{6}{10} = \frac{3}{5}$ of the fish are goldfish.
 b. Total number of fish = $10 + 2 = 12$
 $\frac{4}{12} = \frac{1}{3}$ of the fish are angelfish.
 4. $\frac{3}{10} + \frac{2}{5} = \frac{7}{10}$
 $\frac{7}{10}$ of her savings is spent.
 5. $\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$
 $1 - \frac{5}{8} = \frac{3}{8}$
 $\frac{3}{8}$ of the vehicles are neither cars nor motorcycles.
 6. $6 + \frac{3}{10} = 6\frac{3}{10}$ meters
 Rajon's plant grows $6\frac{3}{10}$ meters high.
 7. $\frac{2}{5}$ of 10 = 4
 $\frac{1}{3} \times 4 = \frac{4}{3} = 1\frac{1}{3}$
 4 packets of turkey ham weigh $1\frac{1}{3}$ pounds.
 8. $\frac{6}{4} \times 12 = 18$
 $\frac{1}{2} \times 18 = 9$
 Carla spends 9 hours lifting weights during the 12 days.

Put on Your Thinking Cap!

Thinking skill: Analyzing parts and whole
 Strategy: Use a model

1. 

3 units $\rightarrow$ \$27

1 unit $\rightarrow$ $\$27 \div 3 = \9

2 units $\rightarrow$ $\$9 \times 2 = \18

Justin pays \$18 for the shirt.