

Chapter 2 Fractions

Student: _____

$$\frac{33}{34}$$

1. Which is 2 as an improper fraction?

A. $\frac{66}{34}$

A.

B. $\frac{68}{34}$

B.

C. $\frac{99}{34}$

C.

D. $\frac{101}{34}$

D.

$$\frac{21}{72}$$

2. Which is in lowest terms?

A. $\frac{7}{18}$

A.

B. $\frac{14}{48}$

B.

C. $\frac{21}{72}$

C.

D. $\frac{7}{24}$

D.

$$\frac{35}{8}$$

3. Which decimal is equivalent to $\frac{35}{8}$?

- A. 3.625
- B. 3.58
- C. 3.575
- D. 3.375

4. Which fraction is equivalent to 0.24?

- A. $\frac{24}{10}$
- B. $\frac{6}{15}$
- C. $\frac{13}{50}$
- D. $\frac{6}{25}$

$$\frac{3}{4}, \frac{7}{9}, \frac{11}{12}$$

5. Which is the least common denominator of $\frac{3}{4}$, $\frac{7}{9}$, and $\frac{11}{12}$?

- A. 18
- B. 24
- C. 36
- D. 48

$$\frac{5}{7} - \frac{3}{28}$$

6. What is the difference of $\frac{5}{7} - \frac{3}{28}$ in lowest terms?

A. $\frac{23}{32}$

A.

B. $\frac{17}{28}$

B.

C. $\frac{8}{14}$

C.

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

D.

$$\frac{17}{32} - \frac{9}{32}$$

7. Which is the difference of $\frac{17}{32} - \frac{9}{32}$ in lowest terms?

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

A.

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

B.

C. $\frac{9}{18}$

C.

D. $\frac{8}{32}$

D.

8. Which is the difference of $114 - 18\frac{3}{5}$?

A. $96\frac{2}{5}$

B. $96\frac{1}{5}$

C. $95\frac{2}{5}$

D. $95\frac{1}{5}$

9. Kendra counted the cars in her apartment parking lot and noticed that 2 out of 4 cars were black. What is the decimal equivalent?

A. 0.2

B. 0.25

C. 0.5

D. 0.55

10. Cheng had submarine sandwich that was $5\frac{7}{8}$ feet long delivered for his birthday party. If $3\frac{3}{5}$ feet of the sandwich was eaten, how many feet of the sandwich was left?

A. $1\frac{11}{40}$

B. $2\frac{11}{40}$

C. $2\frac{9}{40}$

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

$$\frac{3}{5} \div 6$$

11. Which is the quotient of _____ ?

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

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

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

D. $6\frac{3}{5}$

$$\frac{5}{12} \div \frac{3}{10}$$

12. Which is the quotient of _____ ?

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

B. $1\frac{7}{18}$

C. $\frac{4}{11}$

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

13. Which is a mixed number?

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

B. $\frac{12}{5}$

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

D. 5

14. Jackson is rewriting a fraction in lowest terms. Which value is missing?

$$\frac{36 \div ?}{42 \div ?} = \frac{6}{7}$$

- A. 4
- B. 5
- C. 6
- D. 7

15. Which is the correct method for keying a fraction less than one into Excel?

- A. 6/7
- B. 0 6/7
- C. 6 | 7
- D. 7/6

16. Which of the following is the symbol recognized by Excel as multiplication?

- A. ·
- B. ´
- C. *
- D. ^

$$\frac{7}{9}$$

17. What is $\frac{7}{9}$ as a decimal rounded to the nearest hundredth?

$$\frac{7}{12}, \frac{3}{8}, \text{ and } \frac{17}{15}$$

18. What is the least common denominator of $\frac{7}{12}$, $\frac{3}{8}$, and $\frac{17}{15}$?

19. Becky baked 16 loaves of banana bread for a PTA luncheon, all which were eaten. Each person received a

$$\frac{1}{8}$$

slice equal to $\frac{1}{8}$ of a loaf. How many attendees were at the luncheon?

20. What is $1\frac{17}{25}$ as a decimal?

21. When Jessica got her hair cut, she gave her hair dresser a tip that was equal to $\frac{3}{20}$ of the bill. What is the decimal equivalent of $\frac{3}{20}$?

22. Which is the least common denominator of $\frac{2}{14}$, $\frac{3}{10}$, and $\frac{1}{2}$?

23. Convert $\frac{85}{17}$ to a whole number.

24. Convert $\frac{690}{6}$ to a whole number.

25. An example of a(n) _____ is $\frac{21}{18}$.

$$\frac{5}{9} - \frac{4}{27}$$

$$\frac{5}{9}$$

26. To find the difference of $\frac{5}{9} - \frac{4}{27}$, the numerator and denominator of the fraction $\frac{5}{9}$ should be multiplied by _____ so that the fractions have like denominators.

27. Before multiplying or dividing a mixed number, change it to a(n) _____.

28. The two commands used to duplicate a formula from one cell into another cell(s) are _____ and _____.

29. Match each improper fraction with its equivalent mixed number or whole number.

- | | |
|---------------------|-----------------------|
| 1. $\frac{49}{7}$ | 7 _____ |
| 2. $\frac{52}{4}$ | 13 _____ |
| 3. $\frac{26}{8}$ | $3\frac{1}{4}$ _____ |
| 4. $\frac{124}{58}$ | $2\frac{4}{29}$ _____ |

30. Match each multiplication problem with its product written in lowest terms.

- | | |
|--|-----------------------|
| 1. $1\frac{7}{8} \times 2\frac{3}{5} =$ | $\frac{2}{3}$ _____ |
| 2. $\frac{4}{9} \times 3 =$ | $4\frac{7}{8}$ _____ |
| 3. $4 \times 2\frac{5}{6} =$ | $1\frac{1}{3}$ _____ |
| 4. $\frac{8}{11} \times \frac{22}{24} =$ | $11\frac{1}{3}$ _____ |

31. Write $\frac{95}{135}$ in lowest terms.

32. Which value is missing?

$$\frac{7}{8} = \frac{?}{56}$$

33. Which value is missing?

$$\frac{18}{23} = \frac{?}{161}$$

34. What is 0.07 written as a fraction?

35. Add. Then write the sum in lowest terms.

$$\frac{7}{11} + \frac{8}{11} + \frac{10}{11} =$$

36. Add. Then write the sum in lowest terms.

$$\frac{7}{8} + \frac{3}{4} + \frac{2}{3} =$$

37. Add. Then write the sum in lowest terms.

$$\frac{7}{30} + \frac{18}{30} + \frac{17}{30} =$$

38. Add. Then write the sum in lowest terms.

$$\frac{5}{8} + \frac{7}{12} + \frac{4}{9} =$$

39. Subtract. Then write the difference in lowest terms.

$$\frac{21}{25} - \frac{6}{25} =$$

40. What is the difference of $\frac{3}{4} - \frac{1}{8}$ in lowest terms?

41. Add. Then write the sum in lowest terms.

$$\begin{array}{r} 7\frac{5}{12} \\ + 4\frac{11}{12} \\ \hline \end{array}$$

42. Add. Then write the sum in lowest terms.

$$\begin{array}{r} 5\frac{5}{6} \\ + 13\frac{3}{7} \\ \hline \end{array}$$

43. Subtract. Then write the difference in lowest terms.

$$\begin{array}{r} 56\frac{7}{8} \\ - 37\frac{3}{8} \\ \hline \end{array}$$

44. Subtract. Then write the difference in lowest terms.

$$\begin{array}{r} 13\frac{3}{5} \\ - 8\frac{7}{12} \\ \hline \end{array}$$

45. What is the quotient of $5\frac{\frac{2}{3} \div \frac{4}{9}}$?

$$7 \div \frac{14}{15}$$

46. What is the quotient of _____ ?

$$\frac{2}{3}$$

$$\frac{7}{12}$$

47. A baker wants to divide $41 \frac{2}{3}$ cups of flour into bowls of $4 \frac{7}{12}$ cups. How many bowls will there be?

48. Excel sometimes mistakes numbers entered as fractions as dates. How could this problem be prevented?

49. Anita is working on an Excel spreadsheet with the fraction $\frac{2}{3}$ entered in Cell B6 and $1 \frac{4}{5}$ entered in Cell B7. Using the pointing method, how would Anita enter the difference of $1 \frac{4}{5}$ and $\frac{2}{3}$ in Cell B8?

Chapter 2 Fractions **Key**

1. Which is $2\frac{33}{34}$ as an improper fraction?

A. $\frac{66}{34}$

B. $\frac{68}{34}$

C. $\frac{99}{34}$

D. $\frac{101}{34}$

D.

2. Which is $\frac{21}{72}$ in lowest terms?

A. $\frac{7}{18}$

B. $\frac{14}{48}$

C. $\frac{21}{72}$

D. $\frac{7}{24}$

D.

$$\frac{35}{8}$$

3. Which decimal is equivalent to $\frac{35}{8}$?

- A. 3.625
- B. 3.58
- C. 3.575
- D. 3.375

4. Which fraction is equivalent to 0.24?

- A. $\frac{24}{10}$
- B. $\frac{6}{15}$
- C. $\frac{13}{50}$
- D. $\frac{6}{25}$

$$\frac{3}{4}, \frac{7}{9}, \frac{11}{12}$$

5. Which is the least common denominator of $\frac{3}{4}, \frac{7}{9},$ and $\frac{11}{12}$?

- A. 18
- B. 24
- C. 36
- D. 48

$$\frac{5}{7} - \frac{3}{28}$$

6. What is the difference of $\frac{5}{7} - \frac{3}{28}$ in lowest terms?

A. $\frac{23}{32}$

A.

$\frac{17}{28}$

B.

$\frac{8}{14}$

C.

$\frac{4}{7}$

D.

$$\frac{17}{32} - \frac{9}{32}$$

7. Which is the difference of $\frac{17}{32} - \frac{9}{32}$ in lowest terms?

$\frac{1}{4}$

A.

$\frac{1}{8}$

B.

$\frac{9}{18}$

C.

$\frac{8}{32}$

D.

8. Which is the difference of $114 - 18\frac{3}{5}$?

A. $96\frac{2}{5}$

B. $96\frac{1}{5}$

C. $95\frac{2}{5}$

D. $95\frac{1}{5}$

9. Kendra counted the cars in her apartment parking lot and noticed that 2 out of 4 cars were black. What is the decimal equivalent?

A. 0.2

B. 0.25

C. 0.5

D. 0.55

10. Cheng had submarine sandwich that was $5\frac{7}{8}$ feet long delivered for his birthday party. If $3\frac{3}{5}$ feet of the sandwich was eaten, how many feet of the sandwich was left?

A. $1\frac{11}{40}$

B. $2\frac{11}{40}$

B. $2\frac{9}{40}$

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

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

$$\frac{3}{5} \div 6$$

11. Which is the quotient of _____ ?

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

A.

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

B.

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

C.

D. $6\frac{3}{5}$

D.

$$\frac{5}{12} \div \frac{3}{10}$$

12. Which is the quotient of _____ ?

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

A.

B. $1\frac{7}{18}$

B.

C. $\frac{4}{11}$

C.

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

D.

13. Which is a mixed number?

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

A.

B. $\frac{12}{5}$

B.

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

C.

D. 5

14. Jackson is rewriting a fraction in lowest terms. Which value is missing?

$$\frac{36 \div ?}{42 \div ?} = \frac{6}{7}$$

- A. 4
- B. 5
- C. 6**
- D. 7

15. Which is the correct method for keying a fraction less than one into Excel?

- A. 6/7
- B. 0 6/7**
- C. 6 | 7
- D. 7/6

16. Which of the following is the symbol recognized by Excel as multiplication?

- A. .
- B. ´
- C. ***
- D. ^

$$\frac{7}{9}$$

17. What is $\frac{7}{9}$ as a decimal rounded to the nearest hundredth?

0.78

$$\frac{7}{12}, \frac{3}{8}, \text{ and } \frac{17}{15}$$

18. What is the least common denominator of $\frac{7}{12}$, $\frac{3}{8}$, and $\frac{17}{15}$?

120

19. Becky baked 16 loaves of banana bread for a PTA luncheon, all which were eaten. Each person received a

$$\frac{1}{8}$$

slice equal to $\frac{1}{8}$ of a loaf. How many attendees were at the luncheon?

128; 160

20. What is $1\frac{17}{25}$ as a decimal?
1.68

21. When Jessica got her hair cut, she gave her hair dresser a tip that was equal to $\frac{3}{20}$ of the bill. What is the decimal equivalent of $\frac{3}{20}$?
0.15

22. Which is the least common denominator of $\frac{2}{14}$, $\frac{3}{10}$, and $\frac{1}{2}$?
70

23. Convert $\frac{85}{17}$ to a whole number.
5

24. Convert $\frac{690}{6}$ to a whole number.
115

25. An example of a(n) _____ is $\frac{21}{18}$.
improper fraction

$$\frac{5}{9} - \frac{4}{27}$$

$$\frac{5}{9}$$

26. To find the difference of $\frac{5}{9} - \frac{4}{27}$, the numerator and denominator of the fraction $\frac{5}{9}$ should be multiplied by _____ so that the fractions have like denominators.

3

27. Before multiplying or dividing a mixed number, change it to a(n) _____.

improper fraction

28. The two commands used to duplicate a formula from one cell into another cell(s) are _____ and _____.

copy, paste

29. Match each improper fraction with its equivalent mixed number or whole number.

- | | |
|---------------------|---------------------------|
| 1. $\frac{49}{7}$ | 7 <u>1</u> |
| 2. $\frac{52}{4}$ | 13 <u>2</u> |
| 3. $\frac{26}{8}$ | $3 \frac{1}{4}$ <u>3</u> |
| 4. $\frac{124}{58}$ | $2 \frac{4}{29}$ <u>4</u> |

30. Match each multiplication problem with its product written in lowest terms.

- | | |
|---|---------------------------|
| 1. $1 \frac{7}{8} \times 2 \frac{3}{5} =$ | $\frac{2}{3}$ <u>4</u> |
| 2. $\frac{4}{9} \times 3 =$ | $4 \frac{7}{8}$ <u>1</u> |
| 3. $4 \times 2 \frac{5}{6} =$ | $1 \frac{1}{3}$ <u>2</u> |
| 4. $\frac{8}{11} \times \frac{22}{24} =$ | $11 \frac{1}{3}$ <u>3</u> |

31. Write $\frac{95}{135}$ in lowest terms.

$$\frac{95 \div 5}{135 \div 5} = \frac{19}{27}$$

32. Which value is missing?

$$\frac{7}{8} = \frac{?}{56}$$

49

33. Which value is missing?

$$\frac{18}{23} = \frac{?}{161}$$

126

34. What is 0.07 written as a fraction?

$$\frac{7}{100}$$

35. Add. Then write the sum in lowest terms.

$$\frac{7}{11} + \frac{8}{11} + \frac{10}{11} =$$

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

36. Add. Then write the sum in lowest terms.

$$\frac{7}{8} + \frac{3}{4} + \frac{2}{3} =$$

$$2\frac{7}{24}$$

; Find the LCD of 24 and then change the unlike denominators to like denominators.

$$\frac{7 \times 3}{8 \times 3} = \frac{21}{24} \quad \frac{3 \times 6}{4 \times 6} = \frac{18}{24} \quad \frac{2 \times 8}{3 \times 8} = \frac{16}{24} \quad \frac{21}{24} + \frac{18}{24} + \frac{16}{24} = \frac{55}{24} = 2\frac{7}{24}$$

37. Add. Then write the sum in lowest terms.

$$\frac{7}{30} + \frac{18}{30} + \frac{17}{30} =$$

$$1\frac{12}{30} = 1\frac{2}{5}$$

38. Add. Then write the sum in lowest terms.

$$\frac{5}{8} + \frac{7}{12} + \frac{4}{9} =$$

$$1\frac{47}{72}$$

; Find the LCD of 72 and then change the unlike denominators to like denominators.

$$\frac{5 \times 9}{8 \times 9} = \frac{45}{72} \quad \frac{7 \times 6}{12 \times 6} = \frac{42}{72} \quad \frac{4 \times 8}{9 \times 8} = \frac{32}{72} \quad \frac{45}{72} + \frac{42}{72} + \frac{32}{72} = \frac{119}{72} = 1\frac{47}{72}$$

39. Subtract. Then write the difference in lowest terms.

$$\frac{21}{25} - \frac{6}{25} =$$

$$\frac{15}{25} = \frac{3}{5}$$

$$\frac{3}{4} - \frac{1}{8}$$

40. What is the difference of $\frac{3}{4} - \frac{1}{8}$ in lowest terms?

$$\frac{5}{8}$$

;

$$\frac{3}{4} \quad \frac{6}{8} \quad \frac{6}{8} \quad \frac{1}{8} \quad \frac{5}{8}$$

Rewrite $\frac{3}{4}$ as $\frac{6}{8}$. Then subtract: $\frac{6}{8} - \frac{1}{8} = \frac{5}{8}$.

41. Add. Then write the sum in lowest terms.

$$7\frac{5}{12}$$

$$+ 4\frac{11}{12}$$

$$11\frac{16}{12} = 12\frac{1}{3}$$

42. Add. Then write the sum in lowest terms.

$$5\frac{5}{6}$$

$$+ 13\frac{3}{7}$$

$$19\frac{11}{42} \quad 5\frac{5}{6} + 13\frac{3}{7} = 5\frac{35}{42} + 13\frac{18}{42} = 18\frac{53}{42} = 19\frac{11}{42}$$

; Find the LCD of 42 and then add.

43. Subtract. Then write the difference in lowest terms.

$$\begin{array}{r} 56\frac{7}{8} \\ - 37\frac{3}{8} \\ \hline \end{array}$$

$$19\frac{4}{8} = 19\frac{1}{2}$$

44. Subtract. Then write the difference in lowest terms.

$$\begin{array}{r} 13\frac{3}{5} \\ - 8\frac{7}{12} \\ \hline \end{array}$$

$$5\frac{1}{60}$$

$$13\frac{3}{5} - 8\frac{7}{12} = 13\frac{36}{60} - 8\frac{35}{60} = 5\frac{1}{60}$$

Find the LCD of 60 and then subtract.

45. What is the quotient of $5\frac{2}{3} \div \frac{4}{9}$?

$$5\frac{3}{4} \div 5 = \frac{3}{4} \div \frac{2}{3} = \frac{4}{9} = \frac{17}{13} \times \frac{9^3}{4} = \frac{51}{4} = 12\frac{3}{4}$$

$$7 \div \frac{14}{15}$$

46. What is the quotient of $7 \div \frac{14}{15}$?

$$\frac{1}{2} \quad 7 \div \frac{14}{15} = \frac{17}{1} \times \frac{15}{14_2} = \frac{15}{2} = 7\frac{1}{2}$$

7 ; =

$$\frac{2}{3}$$

$$\frac{7}{12}$$

47. A baker wants to divide $41\frac{2}{3}$ cups of flour into bowls of $4\frac{7}{12}$ cups. How many bowls will there be?

$$\frac{1}{11} \quad \frac{25}{13} \times \frac{12^4}{55_{11}} = \frac{100}{11} = 9\frac{1}{11}$$

9 ;

48. Excel sometimes mistakes numbers entered as fractions as dates. How could this problem be prevented?

Use the format cells dialog box to format the cells where fractions will be entered as fractions before entering any numbers.

49. Anita is working on an Excel spreadsheet with the fraction $\frac{2}{3}$ entered in Cell B6 and $1\frac{4}{5}$ entered in Cell B7. Using the pointing method, how would Anita enter the difference of $1\frac{4}{5}$ and $\frac{2}{3}$ in Cell B8?

Anita would do the following:

key =, then point to B7 and click with her mouse, key -, then point to B6 and click with her mouse, then press enter.