

Chapter 2

Test Form A

Name: _____

Write the following fractions in lowest terms.

1. $\frac{35}{80}$

1. _____

2. $\frac{375}{1000}$

2. _____

3. $\frac{32}{64}$

3. _____

Convert the following improper fractions to mixed numbers, and write using lowest terms.

4. $\frac{19}{7}$

4. _____

5. $\frac{38}{24}$

5. _____

6. $\frac{50}{16}$

6. _____

Convert the following mixed numbers to improper fractions.

7. $3\frac{5}{11}$

7. _____

8. $21\frac{7}{8}$

8. _____

9. $32\frac{1}{3}$

9. _____

Find the LCD of each of the following groups of denominators.

10. 8, 12

10. _____

11. 5, 10, 16

11. _____

12. 6, 15, 24, 32

12. _____

Solve the following problems.

13.
$$\begin{array}{r} \frac{1}{5} \\ \frac{3}{10} \\ + \frac{1}{4} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 47\frac{7}{12} \\ -13\frac{1}{6} \\ \hline \end{array}$$

13. _____

14. _____

$$15. \quad \begin{array}{r} 59\frac{3}{8} \\ - 48\frac{13}{16} \\ \hline \end{array} \qquad 15. \underline{\hspace{2cm}}$$

$$16. \quad 12\frac{1}{2} \times 1\frac{2}{3} \qquad 16. \underline{\hspace{2cm}}$$

$$17. \quad 3\frac{3}{4} \div \frac{27}{16} \qquad 17. \underline{\hspace{2cm}}$$

Solve the following application problems.

18. Spence Ferris, a sales representative, drove $4\frac{1}{2}$ hours on the first day of his business trip, $8\frac{3}{4}$ hours on the second day, $6\frac{2}{3}$ hours on the third day, and $5\frac{1}{6}$ hours on the fourth day. If he must drive a total of 30 hours in five days, how many hours must Spence drive on the fifth day? 18.

19. Rod Shuffield owns $63\frac{3}{4}$ acres of land. He sells one-third of the land, $\frac{1}{5}$ of the remaining land will lie unplanted. How many acres will Rod plant this year? 19.

20. Anna Granger bought 29 shares of one stock for $\$8\frac{3}{4}$ per share and 15 shares of another stock for $\$6\frac{1}{4}$ per share. How much did she pay altogether? 20.

21. Find the number of decorative bows that can be made from $24\frac{3}{4}$ yards of ribbon if each bow requires $1\frac{1}{8}$ yards of ribbon. 21.

Convert the following decimals to fractions.

$$22. \quad .725 \qquad 22. \underline{\hspace{2cm}}$$

$$23. \quad .84 \qquad 23. \underline{\hspace{2cm}}$$

Convert the following fractions to decimals. Round answer to the nearest thousandth.

$$24. \quad \frac{17}{18} \qquad 24. \underline{\hspace{2cm}}$$

$$25. \quad \frac{19}{24} \qquad 25. \underline{\hspace{2cm}}$$

Write the following fractions in lowest terms.

1. $\frac{28}{70}$

1. _____

2. $\frac{36}{100}$

2. _____

3. $\frac{24}{1236}$

3. _____

Convert the following improper fractions to mixed numbers, and write using lowest terms.

4. $\frac{55}{7}$

4. _____

5. $\frac{21}{6}$

5. _____

6. $\frac{80}{21}$

6. _____

Convert the following mixed numbers to improper fractions.

7. $4\frac{5}{6}$

7. _____

8. $32\frac{1}{8}$

8. _____

9. $10\frac{4}{9}$

9. _____

Find the LCD of each of the following groups of denominators.

10. 6, 27

10. _____

11. 5, 12, 21

11. _____

12. 2, 6, 15, 32

12. _____

Solve the following problems.

13.
$$\begin{array}{r} \frac{5}{8} \\ \frac{7}{12} \\ + \frac{2}{3} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 27\frac{8}{9} \\ -14\frac{1}{3} \\ \hline \end{array}$$

13. _____

14. _____

$$\begin{array}{r} 15. \quad 73\frac{4}{7} \\ - 29\frac{11}{14} \\ \hline \end{array}$$

15. _____

$$16. \quad 6\frac{1}{3} \times \frac{2}{5}$$

16. _____

$$17. \quad 2\frac{1}{2} \div 3\frac{3}{4}$$

17. _____

Solve the following application problems.

18. Desiree Ramirez is a scuba diver and plans to spend 5 hours underwater during her five day vacation. She makes two dives each day. On the first day, the duration of her dives was $\frac{1}{2}$ hour and $\frac{2}{3}$ hour; the second day, $\frac{3}{4}$ and $\frac{1}{3}$ hour; the third day, $\frac{5}{6}$ and $\frac{1}{2}$ hour; the fourth day, $\frac{2}{3}$ and $\frac{1}{4}$ hour. How long must she spend on the fifth day to achieve her goal?

18. _____

19. Sam Becker owns $147\frac{1}{4}$ acres of land in Maine. He sells one-fifth of his land and deeds $\frac{1}{2}$ of the remaining land to his grandchildren. How much land does Sam still own?

19. _____

20. Sally McLouth bought 7 pounds of rib eye steak for \$7.75 per pound and $4\frac{1}{2}$ pounds of lamb chops for \$9.25 per pound. Find the total cost. Round your answer to the nearest cent.

20. _____

21. A party favor requires $3\frac{7}{8}$ inches of ribbon. How many party favors can be made with 62 inches of ribbon?

21. _____

Convert the following decimals to fractions.

$$22. \quad .3$$

22. _____

$$23. \quad .85$$

23. _____

Convert the following fractions to decimals. Round answer to the nearest thousandth.

$$24. \quad \frac{19}{22}$$

24. _____

$$25. \quad \frac{11}{12}$$

25. _____

Write the following fractions in lowest terms.

1. $\frac{76}{90}$

1. _____

2. $\frac{28}{490}$

2. _____

3. $\frac{426}{840}$

3. _____

Convert the following improper fractions to mixed numbers, and write using lowest terms.

4. $\frac{39}{5}$

4. _____

5. $\frac{63}{14}$

5. _____

6. $\frac{116}{28}$

6. _____

Convert the following mixed numbers to improper fractions.

7. $6\frac{5}{8}$

7. _____

8. $17\frac{3}{5}$

8. _____

9. $12\frac{1}{11}$

9. _____

Find the LCD of each of the following groups of denominators.

10. 6, 21

10. _____

11. 4, 10, 18

11. _____

12. 8, 14, 16, 21

12. _____

Solve the following problems.

13.
$$\begin{array}{r} \frac{3}{4} \\ \frac{2}{3} \\ + \frac{5}{6} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 16\frac{15}{16} \\ -4\frac{1}{8} \\ \hline \end{array}$$

13. _____

14. _____

Write the following fractions in lowest terms.

1. $\frac{56}{60}$

1. _____

2. $\frac{48}{100}$

2. _____

3. $\frac{281}{562}$

3. _____

Convert the following improper fractions to mixed numbers, and write using lowest terms.

4. $\frac{35}{8}$

4. _____

5. $\frac{70}{30}$

5. _____

6. $\frac{124}{24}$

6. _____

Convert the following mixed numbers to improper fractions.

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

7. _____

8. $12\frac{3}{16}$

8. _____

9. $34\frac{2}{3}$

9. _____

Find the LCD of each of the following groups of denominators.

10. 14, 20

10. _____

11. 10, 15, 20

11. _____

12. 8, 9, 15, 16

12. _____

Solve the following problems.

13.
$$\begin{array}{r} 18\frac{3}{5} \\ 4\frac{7}{10} \\ + 1\frac{8}{15} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 6\frac{7}{12} \\ - 2\frac{1}{3} \\ \hline \end{array}$$

13. _____

14. _____

$$15. \begin{array}{r} 92\frac{1}{4} \\ -11\frac{5}{6} \\ \hline \end{array} \qquad 15. \underline{\hspace{2cm}}$$

$$16. 5\frac{1}{9} \times \frac{4}{23} \qquad 16. \underline{\hspace{2cm}}$$

$$17. 3\frac{2}{5} \div 4\frac{8}{15} \qquad 17. \underline{\hspace{2cm}}$$

Solve the following application problems.

18. Mari Seni works exactly 40 hours in a 5-day work week. She worked $6\frac{1}{2}$ hours of Monday, $8\frac{3}{4}$ hours on Tuesday, $6\frac{5}{6}$ hours on Wednesday, and $10\frac{1}{4}$ hours on Thursday. How many hours must Mari work on Friday? 18.

19. Barry Owen owns $146\frac{1}{2}$ acres of land in Nebraska. He sells one-third of the land and donates $\frac{1}{10}$ of the remainder for charity. How many acres of land does he have left? 19.

20. Kirk Spencer bought 23 shares of one stock for $\$6\frac{5}{8}$ per share and 45 shares of another stock for $\$16\frac{3}{4}$ per share. How much did he pay altogether? Round your answer to the nearest cent. 20.

21. Brookhaven College recently carpeted its new offices with 210 square yards of carpet. The total cost of the carpet was \$6825. What was the cost of the carpet per square yard? 21.

Convert the following decimals to fractions.

$$22. .075 \qquad 22. \underline{\hspace{2cm}}$$

$$23. .42 \qquad 23. \underline{\hspace{2cm}}$$

Convert the following fractions to decimals. Round to the nearest thousandth.

$$24. \frac{3}{28} \qquad 24. \underline{\hspace{2cm}}$$

$$25. \frac{41}{84} \qquad 25. \underline{\hspace{2cm}}$$

For each question, select the letter that corresponds to the correct answer.

1. Write $\frac{80}{112}$ in lowest terms. 1. _____
(a) $\frac{6}{7}$ (b) $\frac{40}{56}$ (c) $\frac{5}{7}$ (d) $\frac{10}{14}$
2. Write $\frac{325}{1000}$ in lowest terms. 2. _____
(a) $\frac{28}{250}$ (b) $\frac{13}{40}$ (c) $\frac{65}{200}$ (d) $\frac{11}{100}$
3. Write $\frac{36}{1260}$ in lowest terms. 3. _____
(a) $\frac{1}{35}$ (b) $\frac{18}{630}$ (c) $\frac{3}{105}$ (d) $\frac{6}{210}$
4. Convert $\frac{39}{5}$ to a mixed number. Write in lowest terms. 4. _____
(a) $5\frac{4}{7}$ (b) $4\frac{5}{7}$ (c) $7\frac{4}{5}$ (d) $7\frac{5}{4}$
5. Convert $\frac{116}{28}$ to a mixed number. Write in lowest terms. 5. _____
(a) $4\frac{4}{28}$ (b) $7\frac{1}{4}$ (c) $1\frac{4}{7}$ (d) $4\frac{1}{7}$
6. Convert $\frac{57}{18}$ to a mixed number. Write in lowest terms. 6. _____
(a) $3\frac{1}{3}$ (b) $3\frac{3}{18}$ (c) $3\frac{1}{6}$ (d) 3
7. Convert $7\frac{5}{9}$ to an improper fraction. 7. _____
(a) $\frac{68}{9}$ (b) $\frac{60}{9}$ (c) $\frac{63}{9}$ (d) $\frac{71}{9}$
8. Convert $14\frac{5}{6}$ to an improper fraction. 8. _____
(a) $\frac{89}{6}$ (b) $\frac{84}{5}$ (c) $\frac{70}{6}$ (d) $\frac{76}{5}$

9. Convert $20\frac{3}{4}$ to an improper fraction. 9. _____

- (a) $\frac{64}{4}$ (b) $\frac{83}{3}$ (c) $\frac{80}{3}$ (d) $\frac{83}{4}$

10. Find the LCD for $\frac{3}{4}$ and $\frac{17}{50}$. 10. _____

- (a) 120 (b) 2 (c) 100 (d) 200

11. Find the LCD for $\frac{3}{10}$, $\frac{7}{18}$, and $\frac{21}{25}$. 11. _____

- (a) 500 (b) 630 (c) 900 (d) 450

12. Find the LCD for $\frac{3}{4}$, $\frac{1}{8}$, and $\frac{16}{21}$. 12. _____

- (a) 336 (b) 168 (c) 2016 (d) 4032

Solve the following problems.

13. Add: $\frac{3}{4} + \frac{5}{8} + \frac{1}{12}$ 13. _____

- (a) $2\frac{1}{2}$ (b) $1\frac{11}{24}$ (c) $1\frac{9}{20}$ (d) $1\frac{7}{12}$

14. Subtract: $6\frac{8}{9} - 2\frac{1}{3}$ 14. _____

- (a) $4\frac{5}{9}$ (b) $4\frac{4}{9}$ (c) $4\frac{2}{3}$ (d) $4\frac{1}{2}$

15. Subtract: $57\frac{1}{12} - 28\frac{1}{6}$ 15. _____

- (a) $28\frac{3}{4}$ (b) $29\frac{2}{3}$ (c) $28\frac{5}{6}$ (d) $28\frac{11}{12}$

16. Multiply: $7\frac{3}{8} \times \frac{8}{9}$ 16. _____

- (a) $6\frac{2}{9}$ (b) $6\frac{17}{18}$ (c) $7\frac{1}{3}$ (d) $6\frac{5}{9}$

17. Divide: $2\frac{5}{6} \div \frac{34}{12}$ 17. _____

- (a) 1 (b) $1\frac{1}{3}$ (c) $1\frac{1}{2}$ (d) $1\frac{1}{6}$

Solve the following application problems.

- 18.** Jack Ennings is a freelancer who works 35 hours a week. He worked $6\frac{1}{12}$ hours on Monday, $7\frac{1}{3}$ hours on Tuesday, $9\frac{1}{4}$ hours on Wednesday, and $4\frac{1}{2}$ hours on Thursday. How many hours should Jack work on Friday? **18.** _____
- (a) $9\frac{1}{12}$ (b) $7\frac{5}{6}$ (c) $10\frac{1}{6}$ (d) $8\frac{2}{3}$
- 19.** Julie Fleming owns $90\frac{3}{4}$ acres of land in Arizona. She sells one-third of the land and deeds $\frac{1}{4}$ of the remainder to her son. How many acres of land does she have left? **19.** _____
- (a) $15\frac{1}{8}$ (b) $45\frac{3}{8}$ (c) $60\frac{1}{2}$ (d) $7\frac{9}{16}$
- 20.** Don Baker bought 36 shares of one stock for $\$6\frac{3}{4}$ per share and 45 shares of another stock for $\$7\frac{1}{4}$ per share. How much did he pay altogether? **20.** _____
- (a) \$303.75 (b) \$504.00 (c) \$569.25 (d) \$630.00
- 21.** A certain fabric costs $\$5\frac{1}{4}$ per yard. How many yards can you buy for \$194.25? **21.** _____
- (a) 199 (b) 37 (c) 39 (d) 189
- 22.** Convert .06 to a fraction. **22.** _____
- (a) $\frac{3}{5}$ (b) $\frac{4}{50}$ (c) $\frac{3}{50}$ (d) $\frac{3}{500}$
- 23.** Convert .615 to a fraction. **23.** _____
- (a) $\frac{123}{500}$ (b) $\frac{615}{10}$ (c) $\frac{121}{200}$ (d) $\frac{123}{200}$
- 24.** Convert $\frac{6}{7}$ to a decimal. Round to the nearest thousandth. **24.** _____
- (a) 1.167 (b) 1.1667 (c) .8571 (d) .857
- 25.** Convert $\frac{11}{24}$ to a decimal. Round to the nearest thousandth. **25.** _____
- (a) .4583 (b) 2.182 (c) .458 (d) 2.1818

For each question, select the letter that corresponds to the correct answer.

1. Write $\frac{177}{354}$ in lowest terms. 1. _____
(a) $\frac{59}{118}$ (b) $\frac{1}{2}$ (c) $\frac{177}{354}$ (d) 2
2. Write $\frac{345}{600}$ in lowest terms. 2. _____
(a) $\frac{6}{50}$ (b) $\frac{1}{2}$ (c) $\frac{69}{120}$ (d) $\frac{23}{40}$
3. Write $\frac{72}{192}$ in lowest terms. 3. _____
(a) $\frac{1}{2}$ (b) $\frac{3}{8}$ (c) $\frac{9}{24}$ (d) $\frac{7}{19}$
4. Convert $\frac{33}{5}$ to a mixed number. Write in lowest terms. 4. _____
(a) $6\frac{3}{5}$ (b) $6\frac{5}{15}$ (c) $6\frac{5}{3}$ (d) $6\frac{1}{3}$
5. Convert $\frac{258}{36}$ to mixed number. Write in lowest terms. 5. _____
(a) $7\frac{6}{36}$ (b) $7\frac{1}{6}$ (c) $6\frac{1}{7}$ (d) $1\frac{6}{7}$
6. Convert $\frac{54}{24}$ to mixed number. Write in lowest terms. 6. _____
(a) $2\frac{1}{4}$ (b) $2\frac{1}{2}$ (c) $2\frac{3}{12}$ (d) 2
7. Convert $6\frac{1}{7}$ to an improper fraction. 7. _____
(a) 6 (b) $\frac{39}{7}$ (c) $\frac{40}{7}$ (d) $\frac{43}{7}$
8. Convert $34\frac{3}{4}$ to an improper fraction. 8. _____
(a) $\frac{136}{4}$ (b) $\frac{139}{4}$ (c) $\frac{106}{3}$ (d) $\frac{106}{4}$

9. Convert $14\frac{7}{8}$ to an improper fraction. 9. _____

- (a) $\frac{112}{8}$ (b) $\frac{121}{8}$ (c) $\frac{115}{8}$ (d) $\frac{119}{8}$

10. Find the LCD for $\frac{3}{14}$ and $\frac{25}{26}$. 10. _____

- (a) 2 (b) 364 (c) 182 (d) 7

11. Find the LCD for $\frac{5}{6}$, $\frac{13}{28}$, and $\frac{24}{25}$. 11. _____

- (a) 420 (b) 2100 (c) 210 (d) 820

12. Find the LCD for $\frac{1}{3}$, $\frac{9}{10}$, and $\frac{5}{12}$. 12. _____

- (a) 60 (b) 150 (c) 30 (d) 300

Solve the following problems.

13. Add: $1\frac{5}{6} + \frac{2}{3} + \frac{11}{12}$ 13. _____

- (a) $2\frac{5}{12}$ (b) $3\frac{1}{2}$ (c) $3\frac{7}{12}$ (d) $3\frac{5}{12}$

14. Subtract: $17\frac{1}{6} - 4\frac{2}{3}$ 14. _____

- (a) $13\frac{1}{2}$ (b) $13\frac{1}{3}$ (c) $12\frac{1}{2}$ (d) 13

15. Subtract: $12\frac{13}{15} - 4\frac{5}{6}$ 15. _____

- (a) $8\frac{1}{30}$ (b) $8\frac{3}{10}$ (c) $7\frac{1}{30}$ (d) 8

16. Multiply: $2\frac{1}{7} \times \frac{14}{5}$ 16. _____

- (a) $\frac{209}{35}$ (b) 20 (c) 6 (d) $\frac{75}{98}$

17. Divide: $11\frac{1}{4} \div 3$ 17. _____

- (a) $14\frac{2}{3}$ (b) $\frac{4}{135}$ (c) $3\frac{3}{4}$ (d) $\frac{4}{15}$

Solve the following application problems.

- 18.** Lisa Evans has a 30-page term paper due on Monday. She wrote $5\frac{1}{6}$ pages on Thursday, $7\frac{1}{3}$ pages on Friday, and $9\frac{3}{4}$ pages on Saturday. How many pages must she write on Sunday to complete the assignment? **18.** _____
- (a) $7\frac{3}{4}$ (b) $8\frac{2}{3}$ (c) $7\frac{5}{12}$ (d) $8\frac{3}{4}$
- 19.** Charles Franke is building a bookshelf. He has a piece of wood $18\frac{3}{4}$ feet long. He uses four pieces, each $2\frac{1}{8}$ feet long, for the shelves, and two pieces, each 3 feet long, for the side supports. How much wood is left over? **19.** _____
- (a) $14\frac{1}{2}$ feet (b) $13\frac{5}{8}$ feet (c) $7\frac{1}{4}$ feet (d) $4\frac{1}{4}$ feet
- 20.** Elza Wilding bought 48 shares of one stock for $\$15\frac{3}{4}$ per share and 42 shares of another stock for $\$11\frac{1}{8}$ per share. How much did she pay altogether? **20.** _____
- (a) \$1001.25 (b) \$1223.25 (c) \$1128.75 (d) \$1417.50
- 21.** A logger is clearing land and cuts down a tree that is 140 feet long. He cuts the tree into logs of length $1\frac{1}{4}$ feet. How many logs can he cut? **21.** _____
- (a) 175 (b) 35 (c) 112 (d) 560
- 22.** Convert .125 to a fraction. **22.** _____
- (a) $\frac{125}{1000}$ (b) $\frac{7}{8}$ (c) $\frac{1}{8}$ (d) $1\frac{1}{4}$
- 23.** Convert .36 to a fraction. **23.** _____
- (a) $\frac{9}{25}$ (b) $\frac{3}{5}$ (c) $\frac{2}{5}$ (d) $\frac{8}{25}$
- 24.** Convert $\frac{7}{17}$ to a decimal. Round to the nearest thousandth. **24.** _____
- (a) .4118 (b) .412 (c) 2.429 (d) 2.4286
- 25.** Convert $\frac{3}{16}$ to a decimal. Round to the nearest thousandth. **25.** _____
- (a) 5.33 (b) 5.333 (c) .188 (d) .1875

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