

1. Find the least common multiple (LCM) of the numbers 8, 10.
  - A) 80
  - B) 2
  - C) 40
  - D) 1
  - E) 8
  
2. Find the least common multiple (LCM) of the numbers 6, 14.
  - A) 6
  - B) 2
  - C) 84
  - D) 1
  - E) 42
  
3. Find the least common multiple (LCM) of the numbers 16, 10.
  - A) 1
  - B) 2
  - C) 160
  - D) 80
  - E) 16
  
4. Find the least common multiple (LCM) of the numbers 15, 9, 18.
  - A) 90
  - B) 3
  - C) 2430
  - D) 1
  - E) 15
  
5. Find the greatest common factor (GCF) of the numbers 6, 4.
  - A) 12
  - B) 2
  - C) 24
  - D) 1
  - E) 6

6. Find the greatest common factor (GCF) of the numbers 10, 26.
- A) 2
  - B) 130
  - C) 260
  - D) 1
  - E) 10
7. Find the greatest common factor (GCF) of the numbers 16, 48.
- A) 48
  - B) 16
  - C) 768
  - D) 1
  - E) 3
8. Find the greatest common factor (GCF) of the numbers 8, 16, 36.
- A) 144
  - B) 4608
  - C) 4
  - D) 1
  - E) 8
9. Find the greatest common factor (GCF) of the numbers 8, 10, 12.
- A) 2
  - B) 8
  - C) 10
  - D) 12
  - E) 80
10. Identify the following fraction as a proper fraction, an improper fraction, or a mixed number.
- $$\frac{5}{3}$$
- A) Proper fraction
  - B) Mixed number
  - C) Improper fraction

11. Identify the following fraction as a proper fraction, an improper fraction, or a mixed number.

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

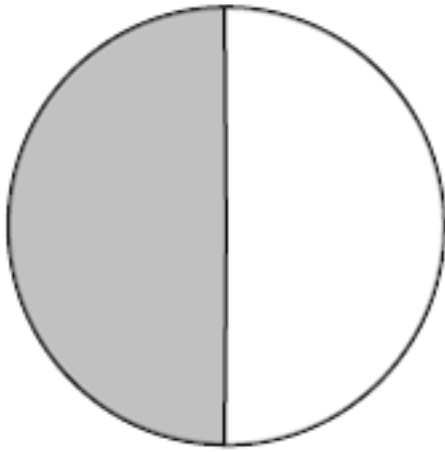
- A) Improper fraction
- B) Mixed number
- C) Proper fraction

12. Identify the following fraction as a proper fraction, an improper fraction, or a mixed number.

$$\frac{5}{13}$$

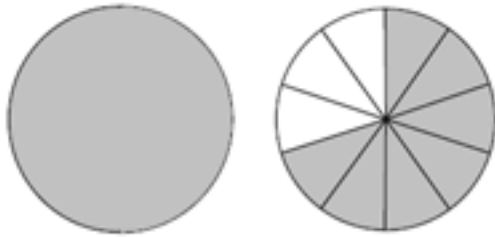
- A) Improper fraction
- B) Mixed number
- C) Proper fraction

13. Express the shaded portion of the circle as a fraction.



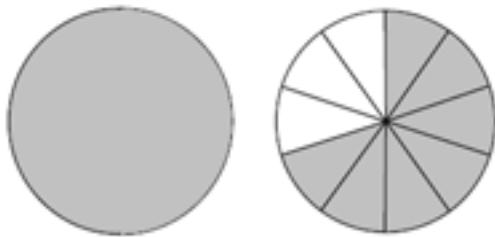
- A)  $\frac{1}{2}$
- B)  $\frac{1}{3}$
- C)  $\frac{2}{4}$
- D)  $\frac{1}{9}$
- E)  $\frac{3}{4}$

14. Express the shaded portion of the circles as a mixed number.



- A)  $1\frac{17}{10}$
- B)  $1\frac{7}{10}$
- C)  $1\frac{8}{11}$
- D)  $2\frac{10}{7}$
- E)  $2\frac{17}{10}$

15. Express the shaded portion of the circles as an improper fraction.



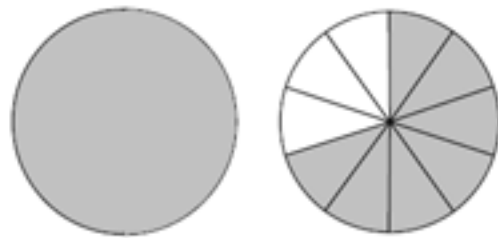
- A)  $\frac{7}{20}$
- B)  $\frac{7}{10}$
- C)  $\frac{10}{17}$
- D)  $\frac{10}{7}$
- E)  $\frac{17}{10}$

16. Shade  $1\frac{1}{2}$  out of 2 circles.

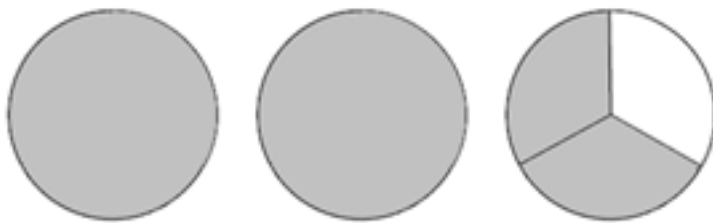
A)



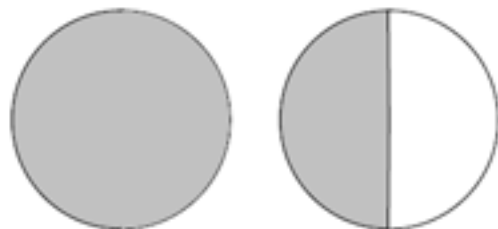
B)



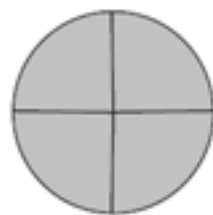
C)



D)



E)



17. Write the improper fraction  $\frac{11}{4}$  as a mixed number or a whole number.

A)  $3\frac{3}{8}$

B)  $3\frac{3}{4}$

C)  $1\frac{3}{8}$

D)  $1\frac{3}{4}$

E)  $2\frac{3}{4}$

18. Write the improper fraction  $\frac{14}{2}$  as a mixed number or a whole number.

A) 7

B)  $7\frac{1}{2}$

C)  $6\frac{1}{4}$

D)  $9\frac{1}{2}$

E) 9

19. Write the mixed number  $6\frac{1}{4}$  as an improper fraction.

A)  $\frac{23}{8}$

B)  $\frac{25}{8}$

C)  $\frac{25}{4}$

D) 6

E)  $\frac{1}{4}$

20. Write an equivalent fraction with the given denominator.

$$\frac{4}{23} = \frac{?}{138}$$

A)  $\frac{4}{138}$

B)  $\frac{25}{138}$

C)  $\frac{30}{138}$

D)  $\frac{24}{138}$

E)  $\frac{31}{138}$

21. Write an equivalent fraction with the given denominator.

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

A)  $\frac{19}{6}$

B)  $\frac{18}{6}$

C)  $\frac{24}{6}$

D)  $\frac{3}{6}$

E)  $\frac{25}{6}$

22. Write the fraction in simplest form.

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

A)  $\frac{10}{7}$

B)  $\frac{5}{14}$

C)  $\frac{5}{7}$

D) 1

E) 0



23. Write the fraction in simplest form.

- $\frac{2}{26}$   
A)  $\frac{2}{13}$   
B)  $\frac{1}{26}$   
C)  $\frac{1}{13}$   
D)  $\frac{26}{2}$   
E)  $\frac{2}{26}$

24. Write the fraction in simplest form.

- $\frac{0}{44}$   
A) 0  
B) 1  
C) 44  
D) 22  
E)  $\infty$

25. Write the fraction in simplest form.

- $\frac{20}{20}$   
A)  $\frac{20}{20}$   
B) 400  
C) 0  
D) 40  
E) 1

26. Write the fraction in simplest form.

- $\frac{24}{68}$   
A)  $\frac{68}{24}$   
B)  $\frac{3}{17}$   
C)  $\frac{12}{17}$   
D)  $\frac{6}{17}$   
E)  $\frac{24}{68}$

27. Write the fraction in simplest form.

- $\frac{54}{2}$   
A) 54  
B)  $\frac{1}{27}$   
C) 2  
D)  $\frac{1}{2}$   
E) 27

28. Add:

- $\frac{1}{13} + \frac{3}{13}$   
A)  $\frac{4}{26}$   
B)  $\frac{4}{13}$   
C)  $\frac{2}{13}$   
D)  $\frac{2}{26}$   
E) 1

29. Add:

$$\frac{7}{10} + \frac{3}{10}$$

- A)  $\frac{1}{5}$
- B)  $\frac{1}{2}$
- C)  $\frac{2}{5}$
- D) 10
- E) 1

30. Add:

$$\frac{11}{7} + \frac{8}{7} + \frac{5}{7}$$

- A)  $3\frac{3}{7}$
- B)  $\frac{19}{7}$
- C)  $\frac{3}{14}$
- D)  $3\frac{3}{14}$
- E)  $\frac{3}{7}$

31. Find the sum of  $\frac{5}{7}$ ,  $\frac{3}{7}$ , and  $\frac{5}{7}$ .

- A)  $1\frac{3}{7}$
- B)  $\frac{13}{7}$
- C)  $\frac{3}{7}$
- D)  $1\frac{13}{7}$
- E)  $\frac{6}{7}$

32. Add:

$$\frac{5}{14} + \frac{5}{18}$$

A)  $1\frac{40}{63}$

B)  $\frac{40}{63}$

C)  $\frac{20}{63}$

D)  $2\frac{20}{63}$

E)  $1\frac{20}{63}$

33. Add:

$$\frac{6}{7} + \frac{13}{14} + \frac{15}{28}$$

A)  $3\frac{9}{28}$

B)  $2\frac{9}{14}$

C)  $2\frac{9}{28}$

D)  $\frac{9}{28}$

E)  $\frac{9}{14}$

34. What is  $\frac{7}{11}$  added to  $\frac{5}{12}$ ?
- A)  $1\frac{7}{132}$
  - B)  $2\frac{7}{132}$
  - C)  $1\frac{7}{264}$
  - D)  $3\frac{12}{23}$
  - E)  $\frac{12}{23}$
35. Find the sum of  $\frac{7}{10}$ ,  $\frac{1}{2}$ , and  $\frac{1}{2}$ .
- A)  $3\frac{7}{20}$
  - B)  $3\frac{7}{10}$
  - C)  $1\frac{7}{20}$
  - D)  $1\frac{7}{10}$
  - E)  $2\frac{7}{20}$
36. Find the total of  $\frac{1}{4}$ ,  $\frac{7}{12}$ , and  $\frac{3}{7}$ .
- A)  $1\frac{11}{42}$
  - B)  $3\frac{11}{42}$
  - C)  $1\frac{11}{84}$
  - D)  $3\frac{11}{84}$
  - E)  $2\frac{11}{42}$

37. Add:

$$5\frac{5}{12} + 3\frac{7}{8}$$

A)  $10\frac{7}{36}$

B)  $10\frac{7}{24}$

C)  $9\frac{7}{24}$

D)  $9\frac{7}{36}$

E)  $10\frac{7}{192}$

38. Add:

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

A)  $9\frac{5}{12}$

B)  $9\frac{5}{6}$

C)  $8\frac{5}{6}$

D)  $8\frac{5}{12}$

E)  $9\frac{5}{18}$

39. Add:

$$\begin{array}{r} 6\frac{3}{5} \\ + 10 \\ \hline \end{array}$$

A)  $16\frac{3}{10}$

B)  $17\frac{3}{5}$

C)  $17\frac{3}{10}$

D)  $16\frac{3}{5}$

E)  $17\frac{3}{10}$

40. Add:

$$3 + 6\frac{5}{12}$$

A)  $10\frac{5}{12}$

B)  $9\frac{5}{12}$

C)  $10\frac{5}{48}$

D)  $9\frac{5}{48}$

E)  $10\frac{5}{144}$

41. Add:

$$8\frac{10}{13} + 5$$

- A) 14
- B)  $14\frac{10}{13}$
- C)  $14\frac{5}{13}$
- D)  $13\frac{5}{13}$
- E)  $13\frac{10}{13}$

42. Add:  $1\frac{1}{3} + 3\frac{1}{2} + 4\frac{1}{2}$ .

- A)  $10\frac{1}{3}$
- B)  $9\frac{1}{3}$
- C)  $9\frac{1}{9}$
- D)  $10\frac{1}{9}$
- E)  $10\frac{1}{6}$

43. Find the sum of  $5\frac{3}{4}$  and  $4\frac{1}{2}$ .

- A)  $10\frac{1}{2}$
- B)  $11\frac{1}{4}$
- C)  $11\frac{1}{2}$
- D)  $10\frac{1}{4}$
- E)  $11\frac{1}{8}$



44. Find  $4\frac{4}{7}$  more than  $1\frac{1}{2}$ .
- A)  $7\frac{1}{49}$
  - B)  $7\frac{1}{14}$
  - C)  $7\frac{1}{4}$
  - D)  $6\frac{1}{4}$
  - E)  $6\frac{1}{14}$
45. What is  $2\frac{3}{8}$  added to  $9\frac{4}{7}$ ?
- A)  $12\frac{53}{56}$
  - B)  $11\frac{53}{56}$
  - C)  $12\frac{53}{64}$
  - D)  $11\frac{53}{64}$
  - E)  $12\frac{53}{49}$
46. Find the total of 3,  $2\frac{1}{2}$ , and  $5\frac{5}{6}$ .
- A)  $11\frac{1}{3}$
  - B)  $10\frac{1}{3}$
  - C)  $11\frac{1}{30}$
  - D)  $10\frac{1}{30}$
  - E)  $11\frac{1}{18}$

47. A table 35 inches high has a top that is  $1\frac{1}{8}$  inches thick. Find the total thickness of the table top after a  $1\frac{5}{16}$  inches veneer is applied.

- A)  $3\frac{7}{16}$  inches
- B)  $2\frac{7}{16}$  inches
- C)  $3\frac{7}{256}$  inches
- D)  $2\frac{7}{256}$  inches
- E)  $3\frac{7}{128}$  inches

48. You are working on a part-time job for \$20 per hour. You worked 6,  $4\frac{1}{4}$ ,  $4\frac{3}{4}$ ,  $3\frac{3}{4}$ , and  $7\frac{1}{4}$  hours during the last five days.

- a. Find the total number of hours you worked during the last five days.
  - b. Find your total wages for the five days.
- A) (a) 26 hours; (b) \$520 pay.
  - B) (a) 6 hours; (b) \$520 pay.
  - C) (a) 26 hours; (b) \$500 pay.
  - D) (a) 6 hours; (b) \$500 pay.
  - E) (a) 6 hours; (b) \$540 pay.

49. The course of a yachting race is in the shape of a triangle with sides that measure  $2\frac{5}{8}$  miles,  $2\frac{5}{6}$  miles, and  $4\frac{1}{2}$  miles. Find the total length of the course.
- A)  $11\frac{23}{24}$  miles
- B)  $9\frac{23}{24}$  miles
- C)  $9\frac{23}{48}$  miles
- D)  $11\frac{23}{48}$  miles
- E)  $8\frac{23}{48}$  miles

50. Subtract:

$$\begin{array}{r} \frac{11}{14} \\ - \frac{3}{14} \\ \hline \end{array}$$

- A)  $\frac{4}{7}$
- B)  $1\frac{4}{7}$
- C)  $1\frac{2}{7}$
- D)  $\frac{2}{7}$
- E)  $2\frac{4}{7}$

51. Subtract:

$$\begin{array}{r} \frac{9}{13} \\ - \frac{1}{13} \\ \hline \end{array}$$

- A)  $1\frac{4}{13}$
- B)  $1\frac{8}{13}$
- C)  $\frac{8}{13}$
- D)  $\frac{4}{13}$
- E)  $2\frac{8}{13}$

52. What is  $\frac{4}{13}$  less than  $\frac{5}{13}$ ?

- A)  $2\frac{1}{13}$
- B)  $1\frac{1}{13}$
- C)  $1\frac{1}{26}$
- D)  $\frac{1}{26}$
- E)  $\frac{1}{13}$

53. Find the difference between  $\frac{14}{19}$  and  $\frac{5}{19}$ .

- A)  $\frac{9}{38}$
- B)  $1\frac{9}{19}$
- C)  $1\frac{9}{38}$
- D)  $\frac{9}{19}$
- E)  $\frac{3}{19}$

54. Find  $\frac{17}{25}$  decreased by  $\frac{14}{25}$ .

- A)  $\frac{3}{50}$
- B)  $\frac{1}{25}$
- C)  $\frac{3}{25}$
- D)  $\frac{3}{100}$
- E)  $\frac{3}{125}$

55. What is  $\frac{8}{11}$  minus  $\frac{7}{11}$ ?

- A)  $\frac{1}{22}$
- B)  $\frac{1}{33}$
- C)  $\frac{1}{11}$
- D)  $\frac{1}{44}$
- E)  $\frac{1}{55}$

56. Subtract:

$$\begin{array}{r} \frac{5}{9} \\ - \frac{1}{8} \\ \hline \end{array}$$

- A)  $\frac{31}{648}$
- B)  $\frac{31}{576}$
- C)  $\frac{31}{216}$
- D)  $\frac{31}{72}$
- E)  $\frac{31}{144}$

57. Subtract:

$$\begin{array}{r} \frac{6}{11} \\ - \frac{3}{16} \\ \hline \end{array}$$

- A)  $\frac{63}{176}$
- B)  $\frac{63}{121}$
- C)  $\frac{21}{176}$
- D)  $\frac{63}{352}$
- E)  $\frac{63}{256}$

58. What is  $\frac{8}{21}$  less than  $\frac{11}{15}$ ?

A)  $\frac{37}{147}$

B)  $\frac{37}{75}$

C)  $\frac{37}{2205}$

D)  $\frac{37}{1575}$

E)  $\frac{37}{105}$

59. Find the difference between  $\frac{13}{18}$  and  $\frac{5}{12}$ .

A)  $1\frac{11}{72}$

B)  $1\frac{11}{15}$

C)  $\frac{11}{36}$

D)  $\frac{11}{432}$

E)  $\frac{11}{72}$

60. Find  $\frac{11}{12}$  decreased by  $\frac{11}{14}$ .

A)  $1\frac{1}{6}$

B)  $\frac{11}{84}$

C)  $1\frac{11}{168}$

D)  $\frac{11}{1008}$

E)  $\frac{11}{168}$

61. What is  $\frac{13}{20}$  minus  $\frac{1}{34}$ ?

A)  $1\frac{211}{680}$

B)  $1\frac{211}{340}$

C)  $\frac{211}{340}$

D)  $\frac{211}{680}$

E)  $\frac{211}{221}$

62. Subtract:

$$\begin{array}{r} 4\frac{8}{13} \\ - 1\frac{6}{13} \\ \hline \end{array}$$

A)  $3\frac{1}{4}$

B)  $4\frac{2}{13}$

C)  $4\frac{1}{4}$

D)  $3\frac{2}{13}$

E)  $5\frac{2}{13}$



63. Subtract:

$$\begin{array}{r} 15\frac{9}{17} \\ - 14\frac{5}{17} \\ \hline \end{array}$$

- A)  $1\frac{4}{17}$
- B)  $2\frac{4}{17}$
- C)  $2\frac{4}{9}$
- D)  $1\frac{4}{9}$
- E)  $1\frac{4}{153}$

64. Subtract:

$$\begin{array}{r} 7\frac{5}{11} \\ - 1 \\ \hline \end{array}$$

- A)  $7\frac{5}{11}$
- B)  $5\frac{5}{11}$
- C)  $5\frac{5}{22}$
- D)  $6\frac{5}{22}$
- E)  $6\frac{5}{11}$

65. Subtract:

$$\begin{array}{r} 8 \\ - 1\frac{3}{4} \\ \hline \end{array}$$

A)  $6\frac{1}{4}$

B)  $5\frac{1}{4}$

C)  $5\frac{3}{4}$

D)  $6\frac{3}{4}$

E)  $7\frac{3}{4}$

66. Subtract:

$$\begin{array}{r} 18\frac{2}{7} \\ - 13\frac{2}{9} \\ \hline \end{array}$$

A)  $4\frac{4}{63}$

B)  $5\frac{4}{63}$

C)  $4\frac{8}{441}$

D)  $5\frac{8}{441}$

E)  $4\frac{2}{63}$

67. What is  $4\frac{1}{7}$  less than  $11\frac{5}{9}$ ?

A)  $7\frac{26}{63}$

B)  $8\frac{26}{63}$

C)  $8\frac{13}{63}$

D)  $7\frac{13}{63}$

E)  $7\frac{26}{189}$

68. Find the difference between  $11\frac{3}{8}$  and  $7\frac{1}{2}$ .

A)  $3\frac{7}{16}$

B)  $2\frac{7}{8}$

C)  $2\frac{7}{16}$

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

E)  $3\frac{7}{8}$

69. What is  $11\frac{5}{11}$  minus  $2\frac{1}{3}$ ?

A)  $11\frac{4}{33}$

B)  $8\frac{4}{33}$

C)  $8\frac{4}{165}$

D)  $9\frac{4}{33}$

E)  $9\frac{4}{165}$

70. An 11 mile walkathon has three checkpoints. The first is  $4\frac{1}{4}$  miles from the starting point. The second checkpoint is  $3\frac{1}{2}$  miles from the first.

**a.** How many miles is it from the starting point to the second checkpoint?

**b.** How many miles is it from the second checkpoint to the finish line?

- A) (a)  $7\frac{3}{8}$  miles; (b)  $3\frac{1}{4}$  miles  
B) (a)  $7\frac{3}{4}$  miles; (b)  $4\frac{1}{4}$  miles  
C) (a)  $7\frac{3}{8}$  miles; (b)  $4\frac{1}{8}$  miles  
D) (a)  $7\frac{3}{4}$  miles; (b)  $3\frac{1}{4}$  miles  
E) (a)  $7\frac{3}{4}$  miles; (b)  $4\frac{1}{8}$  miles

71. A patient with high blood pressure who weighs 224 pounds is put on a diet to lose 28 pounds in three months. The patient loses  $10\frac{1}{8}$  pounds the first month and  $12\frac{5}{8}$  pounds the second month. How much weight must be lost the third month for the goal to be achieved?

- A)  $6\frac{1}{4}$  pounds  
B)  $5\frac{1}{4}$  pounds  
C)  $6\frac{1}{2}$  pounds  
D)  $5\frac{1}{2}$  pounds  
E)  $7\frac{1}{2}$  pounds

72. Multiply:

$$\frac{4}{9} \times \frac{2}{3}$$

A)  $\frac{1}{12}$

B)  $\frac{4}{27}$

C)  $\frac{1}{3}$

D)  $\frac{8}{81}$

E)  $\frac{8}{27}$

73. Multiply:

$$\frac{7}{8} \times \frac{5}{9}$$

A)  $\frac{35}{216}$

B)  $\frac{35}{144}$

C)  $\frac{35}{72}$

D)  $1\frac{35}{144}$

E)  $1\frac{35}{72}$

74. Multiply  $\frac{1}{2}$  and  $\frac{19}{28}$ .

- A)  $\frac{19}{112}$
- B)  $\frac{19}{56}$
- C)  $\frac{135}{392}$
- D)  $1\frac{19}{112}$
- E)  $1\frac{19}{56}$

75. Find the product of  $\frac{4}{7}$  and  $\frac{7}{48}$ .

- A)  $\frac{1}{4}$
- B)  $\frac{1}{24}$
- C)  $\frac{1}{12}$
- D)  $1\frac{1}{24}$
- E)  $1\frac{1}{12}$

76. What is  $\frac{4}{7}$  times  $\frac{16}{25}$ ?

- A)  $\frac{66}{175}$
- B)  $\frac{32}{175}$
- C)  $\frac{64}{175}$
- D)  $\frac{33}{350}$
- E)  $\frac{64}{525}$

77. Multiply:

$$2 \times \frac{4}{7}$$

A)  $1\frac{1}{7}$

B)  $1\frac{2}{7}$

C)  $\frac{2}{7}$

D)  $2\frac{4}{7}$

E)  $2\frac{1}{7}$

78. Multiply:

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

A)  $\frac{1}{24}$

B)  $8\frac{1}{3}$

C)  $8\frac{2}{3}$

D)  $2\frac{2}{3}$

E)  $2\frac{1}{24}$

79. Multiply:

$$\frac{2}{3} \times 1\frac{7}{9}$$

A)  $1\frac{7}{27}$

B)  $1\frac{5}{54}$

C)  $1\frac{5}{27}$

D)  $1\frac{1}{6}$

E)  $1\frac{1}{3}$

80. Multiply:

$$1\frac{3}{4} \times \frac{4}{9}$$

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

B)  $\frac{7}{9}$

C)  $\frac{29}{36}$

D)  $\frac{5}{12}$

E)  $\frac{5}{6}$



81. Multiply:

$$5 \times 6\frac{2}{3}$$

A)  $33\frac{1}{3}$

B)  $5\frac{1}{3}$

C)  $33\frac{2}{3}$

D)  $5\frac{2}{3}$

E)  $33\frac{4}{5}$

82. Multiply:

$$4 \times 3\frac{5}{6}$$

A)  $4\frac{5}{6}$

B)  $4\frac{1}{3}$

C)  $15\frac{5}{8}$

D)  $\frac{5}{8}$

E)  $15\frac{1}{3}$

83. Multiply:

$$2\frac{2}{7} \times 10$$

A)  $22\frac{2}{35}$

B)  $22\frac{6}{7}$

C)  $10\frac{2}{7}$

D)  $22\frac{2}{7}$

E)  $10\frac{2}{35}$

84. Multiply:

$$4\frac{5}{7} \times 5$$

A)  $5\frac{5}{7}$

B)  $6\frac{4}{7}$

C)  $23\frac{4}{7}$

D)  $23\frac{4}{7}$

E)  $\frac{4}{7}$

85. Multiply:

$$5\frac{2}{5} \times 0$$

A)  $5\frac{2}{5}$

B) 1

C) 0

D) Undefined

E) 10

86. Multiply:

$$4\frac{4}{7} \times 3\frac{3}{8}$$

- A)  $15\frac{1}{2}$
- B)  $15\frac{3}{14}$
- C)  $15\frac{13}{28}$
- D)  $15\frac{1}{4}$
- E)  $15\frac{3}{7}$

87. Multiply  $2\frac{1}{2}$  and  $4\frac{1}{5}$ .

- A)  $10\frac{1}{4}$
- B)  $10\frac{1}{2}$
- C)  $10\frac{7}{10}$
- D)  $10\frac{9}{20}$
- E)  $10\frac{9}{10}$

88. Find the product of  $4\frac{5}{12}$  and  $\frac{1}{3}$ .

- A)  $1\frac{7}{24}$
- B)  $1\frac{17}{72}$
- C)  $1\frac{19}{36}$
- D)  $1\frac{17}{36}$
- E)  $1\frac{7}{12}$

89. What is  $1\frac{4}{9}$  times  $2\frac{1}{6}$ ?

A)  $3\frac{7}{54}$

B)  $3\frac{7}{108}$

C)  $3\frac{1}{6}$

D)  $3\frac{11}{108}$

E)  $3\frac{11}{54}$

90. Salmon costs \$5 per pound. Find the cost of  $5\frac{2}{5}$  pounds of salmon.

A) \$26.00

B) \$22.00

C) \$27.00

D) \$26.80

E) \$27.80

91. The perimeter of a square is equal to 4 times the length of a side of the square. Find the perimeter of a square whose side measures  $10\frac{7}{8}$  inches.

A)  $43\frac{1}{4}$  inches

B)  $43\frac{1}{2}$  inches

C)  $42\frac{1}{2}$  inches

D)  $42\frac{1}{4}$  inches

E)  $42\frac{1}{8}$  inches

92. The area of a rectangle is equal to the product of the length of the rectangle times its width. Find the area of a rectangle that has a length of  $5\frac{2}{5}$  miles and a width of  $3\frac{1}{5}$  miles. The area will be in square miles.

- A)  $17\frac{9}{50}$  sq mi
- B)  $17\frac{7}{50}$  sq mi
- C)  $17\frac{8}{25}$  sq mi
- D)  $17\frac{7}{25}$  sq mi
- E)  $17\frac{9}{25}$  sq mi

93. The Booster Club is making 16 capes for the members of the high school marching band. Each cape is  $1\frac{5}{8}$  yards of material at a cost of \$8 per yard. Find the total cost of the material.

- A) \$130
- B) \$5
- C) \$128
- D) \$13
- E) \$208

94. Divide:

$$0 \div \frac{1}{3}$$

- A) 12
- B) 1
- C) Undefined
- D) 0
- E)  $\frac{1}{3}$

95. Divide:

$$\frac{1}{7} \div \frac{1}{21}$$

- A)  $\frac{1}{147}$
- B) 3
- C) 0
- D) Undefined
- E)  $\frac{1}{294}$

96. Divide:

$$\frac{2}{13} \div \frac{4}{13}$$

- A)  $\frac{1}{2}$
- B)  $\frac{8}{169}$
- C)  $\frac{1}{4}$
- D)  $\frac{16}{169}$
- E)  $\frac{1}{6}$

97. Divide:

$$\frac{3}{7} \div \frac{7}{36}$$

- A)  $2\frac{5}{49}$
- B)  $\frac{1}{12}$
- C)  $2\frac{10}{49}$
- D)  $\frac{1}{6}$
- E)  $2\frac{20}{49}$

98. Divide:

$$\frac{1}{8} \div \frac{3}{7}$$

A)  $\frac{24}{7}$

B)  $\frac{3}{56}$

C)  $\frac{7}{24}$

D) 1

E)  $\frac{56}{3}$

99. Divide  $\frac{1}{9}$  by  $\frac{1}{3}$ .

A)  $\frac{2}{3}$

B)  $\frac{1}{27}$

C)  $\frac{1}{6}$

D)  $\frac{2}{27}$

E)  $\frac{1}{3}$

100. Find the quotient of  $\frac{1}{4}$  and  $\frac{7}{32}$ .

A)  $\frac{7}{128}$

B)  $1\frac{1}{7}$

C)  $1\frac{1}{14}$

D)  $\frac{7}{64}$

E)  $1\frac{2}{7}$

101. Divide:

$$8 \div \frac{4}{5}$$

A)  $6\frac{4}{5}$

B)  $6\frac{2}{5}$

C)  $9\frac{1}{4}$

D) 10

E)  $1\frac{1}{4}$

102. Divide:

$$\frac{6}{11} \div 24$$

A)  $\frac{1}{11}$

B) 44

C)  $\frac{1}{264}$

D) 264

E)  $\frac{1}{44}$

103. Divide:

$$8 \div 5\frac{2}{3}$$

A)  $45\frac{2}{3}$

B)  $45\frac{1}{3}$

C)  $1\frac{7}{34}$

D)  $1\frac{7}{17}$

E)  $1\frac{14}{17}$



104. Divide:

$$6\frac{1}{4} \div \frac{1}{4}$$

- A) 1
- B)  $1\frac{9}{16}$
- C) 25
- D)  $1\frac{9}{32}$
- E)  $25\frac{9}{16}$

105. Divide:

$$\frac{5}{9} \div 5\frac{5}{6}$$

- A)  $3\frac{13}{27}$
- B)  $3\frac{13}{54}$
- C)  $\frac{1}{21}$
- D)  $\frac{2}{21}$
- E)  $\frac{4}{21}$

106. Divide:

$$9\frac{3}{7} \div 8$$

- A)  $1\frac{5}{56}$
- B)  $75\frac{3}{7}$
- C)  $1\frac{5}{28}$
- D)  $75\frac{3}{14}$
- E)  $1\frac{5}{14}$

107. Divide:

$$8\frac{1}{2} \div 1\frac{2}{3}$$

A)  $5\frac{1}{10}$

B)  $14\frac{1}{6}$

C)  $5\frac{1}{20}$

D)  $14\frac{1}{3}$

E)  $5\frac{1}{5}$

108. Divide  $7\frac{7}{10}$  by  $5\frac{5}{8}$ .

A)  $1\frac{83}{450}$

B)  $43\frac{5}{16}$

C)  $1\frac{83}{225}$

D)  $43\frac{5}{8}$

E)  $1\frac{166}{225}$

109. Find the quotient of  $7\frac{1}{5}$  and  $1\frac{1}{7}$ .

A)  $6\frac{3}{10}$

B)  $8\frac{8}{35}$

C)  $6\frac{3}{20}$

D)  $8\frac{16}{35}$

E)  $6\frac{3}{5}$

110. Individual cereal boxes contain  $\frac{7}{8}$  ounce of cereal. How many boxes can be filled with 1134 ounces of cereal?
- A)  $992\frac{1}{4}$
  - B) 1296
  - C)  $1296\frac{1}{2}$
  - D)  $992\frac{1}{2}$
  - E) 992
111. The Inverness Investor Group bought  $5\frac{1}{3}$  acres of land for \$25,600. What was the cost of each acre?
- A) \$136,533
  - B) \$204,800
  - C) \$25,600
  - D) \$5120
  - E) \$4800
112. A car used  $12\frac{1}{3}$  gallons of gasoline on a 740-mile trip. How many miles can the car travel on 1 gallon of gasoline?
- A) 56 miles
  - B) 123 miles
  - C) 1 mile
  - D) 60 miles
  - E) 49 miles

113. The Hammond Company purchased  $12\frac{1}{4}$  acres for a housing project. One and a half acres were set aside for a park.
- How many acres are available for housing?
  - How many  $\frac{1}{4}$  acre parcels of land can be sold after the land for the park is set aside?
- A) (a)  $10\frac{3}{4}$  acres; (b) 47 parcels  
B) (a)  $11\frac{3}{4}$  acres; (b) 47 parcels  
C) (a)  $11\frac{3}{4}$  acres; (b) 43 parcels  
D) (a)  $10\frac{3}{4}$  acres; (b) 43 parcels  
E) (a) 11 acres; (b) 44 parcels

114. Place the correct symbol, < or >, between the two numbers.

- A)  $\frac{18}{41} < \frac{30}{41}$   
B)  $\frac{18}{41} > \frac{30}{41}$

115. Place the correct symbol, < or >, between the two numbers.

- A)  $\frac{76}{101} < \frac{13}{101}$   
B)  $\frac{76}{101} > \frac{13}{101}$

116. Place the correct symbol, < or >, between the two numbers.

- A)  $\frac{9}{10} > \frac{9}{20}$   
B)  $\frac{9}{10} < \frac{9}{20}$

117. Place the correct symbol, < or >, between the two numbers.

- $\frac{13}{22}$     $\frac{9}{11}$
- A)  $\frac{13}{22} > \frac{9}{11}$
- B)  $\frac{13}{22} < \frac{9}{11}$

118. Simplify:

- $\left(\frac{1}{3}\right)^2$
- A)  $\frac{2}{9}$
- B)  $\frac{1}{9}$
- C)  $\frac{1}{18}$
- D)  $\frac{1}{3}$
- E)  $\frac{1}{27}$

119. Simplify:

- $\left(\frac{3}{2}\right)\left(\frac{1}{3}\right)^4$
- A)  $\frac{1}{18}$
- B)  $\frac{1}{54}$
- C)  $\frac{1}{162}$
- D)  $\frac{1}{6}$
- E)  $\frac{2}{243}$

120. Simplify:

$$\left(\frac{1}{3}\right)^4 \cdot \left(\frac{7}{8}\right)^2$$

- A)  $\frac{49}{576}$
- B)  $\frac{49}{1728}$
- C)  $\frac{49}{5184}$
- D)  $\frac{49}{192}$
- E)  $\frac{49}{648}$

121. Simplify:

$$\left(\frac{4}{3}\right) \cdot \left(\frac{3}{4}\right)^2 \cdot \left(\frac{4}{5}\right)$$

- A)  $\frac{12}{5}$
- B)  $\frac{5}{3}$
- C)  $\frac{3}{5}$
- D)  $\frac{5}{12}$
- E)  $\frac{4}{5}$

122. Simplify:

$$4 \cdot \left(\frac{4}{5}\right)^3 \cdot \left(\frac{1}{4}\right)^2$$

- A)  $\frac{64}{125}$
- B)  $\frac{64}{625}$
- C)  $\frac{64}{5}$
- D) 64
- E)  $\frac{16}{125}$

123. Simplify:

$$\left(\frac{3}{4}\right)^2 - \frac{5}{12}$$

- A)  $\frac{43}{288}$
- B)  $\frac{7}{96}$
- C)  $\frac{7}{48}$
- D)  $1\frac{7}{96}$
- E)  $1\frac{7}{48}$

124. Simplify:

$$\left(\frac{14}{15}\right) \cdot \left(\frac{5}{6} - \frac{1}{15}\right) + \frac{16}{45}$$

- A)  $2\frac{16}{225}$
- B)  $1\frac{8}{225}$
- C)  $1\frac{337}{4725}$
- D)  $2\frac{8}{225}$
- E)  $1\frac{16}{225}$

125. Simplify:

$$\frac{6}{11} - \left(\frac{1}{2}\right)^2 + \frac{4}{7}$$

- A)  $1\frac{267}{616}$
- B)  $\frac{267}{616}$
- C)  $\frac{535}{616}$
- D)  $\frac{267}{308}$
- E)  $1\frac{267}{308}$



126. Simplify:

$$\frac{3}{4} \cdot \left(\frac{4}{9}\right)^2 + \frac{1}{2}$$

A)  $1\frac{5}{6}$

B)  $1\frac{5}{12}$

C)  $1\frac{181}{216}$

D)  $2\frac{5}{12}$

E)  $\frac{35}{54}$

127. Simplify:

$$\left(\frac{1}{4} + \frac{5}{6}\right) \div \frac{7}{10}$$

A)  $2\frac{23}{84}$

B)  $1\frac{23}{84}$

C)  $1\frac{277}{504}$

D)  $1\frac{23}{42}$

E)  $2\frac{23}{42}$

128. Simplify:

$$\frac{300}{601} \div \left( \frac{602}{1803} + \frac{300}{601} \right)$$

A)  $\frac{50}{167}$

B)  $\frac{25}{167}$

C)  $\frac{901}{3006}$

D)  $1\frac{25}{167}$

E)  $\frac{450}{751}$

## Answer Key

1. C
2. E
3. D
4. A
5. B
6. A
7. B
8. C
9. A
10. C
11. B
12. C
13. A
14. B
15. E
16. D
17. E
18. A
19. C
20. D
21. B
22. C
23. C
24. A
25. E
26. D
27. E
28. B
29. E
30. A
31. B
32. B
33. C
34. A
35. D
36. A
37. C
38. C
39. D
40. B
41. E
42. B
43. D
44. E

45. B
46. A
47. B
48. A
49. B
50. A
51. C
52. E
53. D
54. C
55. C
56. D
57. A
58. E
59. C
60. B
61. C
62. D
63. A
64. E
65. A
66. B
67. A
68. E
69. D
70. D
71. B
72. E
73. C
74. B
75. C
76. C
77. A
78. D
79. C
80. B
81. A
82. E
83. B
84. D
85. C
86. E
87. B
88. D
89. A
90. C

- 91. B
- 92. D
- 93. E
- 94. D
- 95. B
- 96. A
- 97. C
- 98. C
- 99. E
- 100. B
- 101. D
- 102. E
- 103. D
- 104. C
- 105. D
- 106. C
- 107. A
- 108. C
- 109. A
- 110. B
- 111. E
- 112. D
- 113. D
- 114. A
- 115. B
- 116. A
- 117. B
- 118. B
- 119. B
- 120. C
- 121. C
- 122. E
- 123. C
- 124. E
- 125. D
- 126. E
- 127. D
- 128. E