

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.

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

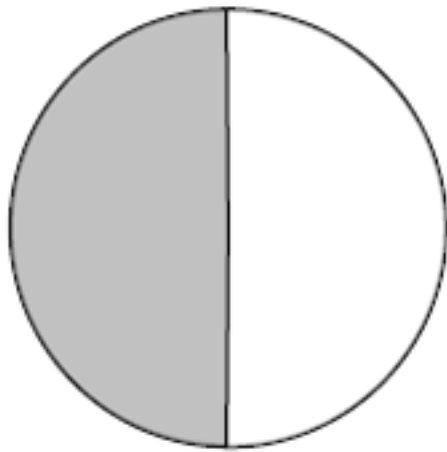
- A) Improper fraction
- B) Mixed number
- C) Proper fraction

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

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

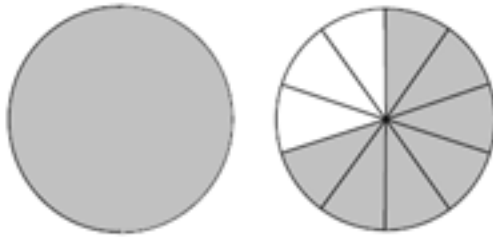
- A) Improper fraction
- B) Mixed number
- C) Proper fraction

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



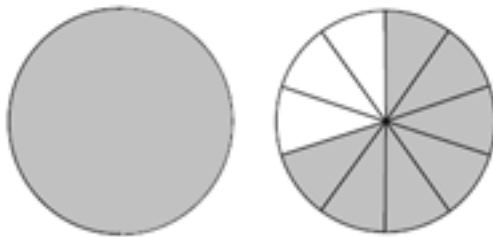
- A) $\frac{1}{2}$
- B) $\frac{1}{3}$
- C) $\frac{2}{4}$
- D) $\frac{1}{9}$
- E) $\frac{3}{4}$

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.



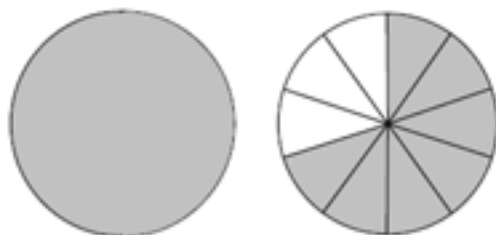
- A) $\frac{7}{20}$
- B) $\frac{7}{10}$
- C) $\frac{10}{17}$
- D) $\frac{10}{7}$
- E) $\frac{17}{10}$

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

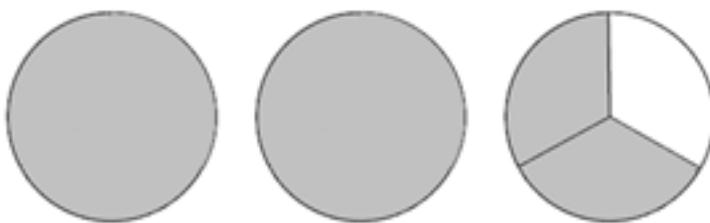
A)



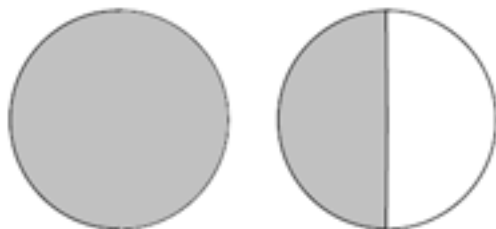
B)



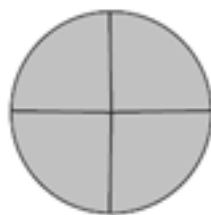
C)



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) ∞

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:

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

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

57. Subtract:

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

- 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) $\frac{1}{56}$

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) $10\frac{3}{4}$ acres; (b) 47 parcels
 - (a) $11\frac{3}{4}$ acres; (b) 47 parcels
 - (a) $11\frac{3}{4}$ acres; (b) 43 parcels
 - (a) $10\frac{3}{4}$ acres; (b) 43 parcels
 - (a) 11 acres; (b) 44 parcels

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

$$\frac{18}{41} \quad \frac{30}{41}$$

- $\frac{18}{41} < \frac{30}{41}$
- $\frac{18}{41} > \frac{30}{41}$

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

$$\frac{76}{101} \quad \frac{13}{101}$$

- $\frac{76}{101} < \frac{13}{101}$
- $\frac{76}{101} > \frac{13}{101}$

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

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

- $\frac{9}{10} > \frac{9}{20}$
- $\frac{9}{10} < \frac{9}{20}$

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