Contemporary Mathematics for Business and Consumers 8th edition Brechner Test Bank

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TRUE/FALSE

1 : A fraction representing less than a whole unit where the numerator is less than the denominator is called a mixed number.?
A : true
B : false

Correct Answer : B

2 : ?To convert an improper fraction to a whole number or mixed number, divide the numerator by the denominator. If there is no remainder, it is a whole number. If there is a remainder, write the whole number, then write the fraction as the remainder over the denominator.?
A : true
B : false

Correct Answer : A

3 : When a fraction has been reduced to the point where there are no common divisors left other than 1; it is said to be raised to the greatest common divisor.?
A : true
B : false

Correct Answer : B

4 : A whole number greater than one that is divisible only by itself and one is called a prime number.?
A : true
B : false

Correct Answer : A

5 : To add unlike fractions, add all the numerators to find the new numerator, then add all the denominators to find the new denominator.?
A : true
B : false

Correct Answer : B

6 : To subtract unlike fractions, find the least common denominator, raise each fraction to the least common denominator, subtract the like fractions.?
A : true
B : false

Correct Answer : A

7 : To multiply mixed numbers, convert all mixed numbers to improper fractions, use cancellation where possible. If the answer is an improper fraction, convert to a mixed number in its lowest terms. ?
A : true
B : false

Correct Answer : A

8 : To divide fractions and mixed numbers, change any mixed numbers to improper fractions, invert the second fraction to it's reciprocal, and subtract.?
A : true
B : false

Correct Answer : B

9 : $\frac{16}{38}$

The fraction can be reduced to .
A : true
B : false

Correct Answer : A

10 : $\frac{1}{4}$

The least common denominator of the following fractions is 120.??, , , ??
A : true
B : false

Correct Answer : B

11 : $\frac{1}{6}, \frac{5}{18}, \frac{4}{9}, \frac{3}{72}$

The least common denominator of the following list of fractions is 72.?
A : true
B : false

Correct Answer : A

12 : $10\frac{1}{2}, 8\frac{3}{4}, 7\frac{1}{4}, 9\frac{1}{2}$

Jacob worked the following hours for the week as a manager of the campus food court: ,His total hours worked are 36.?
A : true
B : false

Correct Answer : A

13 : $\frac{6}{7}$

The Garden Center sells grass seeds by 100 pound bins. If Anya purchased of a bin for her yard, but only used 3/4 of the seeds, she would have 3/14 of a bin left.?
A : true
B : false

Correct Answer : A

14 : $\frac{3}{8}$

John, Carla, and Kai entered a business partnership to open a frozen yogurt shop. If John owns ?of the company and Kai owns , Carla owns of the business.
A : true
B : false

Correct Answer : B

15 : $\frac{118}{9}$

written as a mixed number is .
A : true
B : false

Correct Answer : A

SHORT RESPONSE

16 : $33\frac{3}{8}$

Identify the type of fraction and write it in word form:

Correct Answer : mixed number; thirty-three and three-eighths

17 : $\frac{5}{17}$

Identify the type of fraction and write it in word form:

Correct Answer : proper fraction; five-seventeenths

18 : $\frac{12}{12}$

Identify the type of fraction and write it in word form:

Correct Answer : improper fraction; twelve-twelfths

19 : $\frac{92}{16}$

Convert the improper fraction to a whole or mixed number:

Correct Answer :

20 : $\frac{9}{4}$

Convert the improper fraction to a whole or mixed number:

Correct Answer :

21 : $\frac{35}{6}$

Convert the improper fraction to a whole or mixed number:

Correct Answer :

22 : $\frac{56}{11}$

Convert the improper fraction to a whole or mixed number:

Correct Answer :

23 : $8\frac{5}{6}$

Convert the mixed number to an improper fraction:

Correct Answer :

24 : $8\frac{1}{4}$

Convert the mixed number to an improper fraction:

Correct Answer :

25 : $3\frac{2}{9}$

Convert the mixed number to an improper fraction:

Correct Answer :

26 : $16\frac{1}{2}$

Convert the mixed number to an improper fraction:

Correct Answer :

27 : $\frac{84}{161}$

Reduce the fraction to lowest terms:

Correct Answer :

28 : $\frac{252}{810}$

Reduce the fraction to lowest terms:

Correct Answer :

29 : $\frac{33}{132}$

Reduce the fraction to lowest terms:

Correct Answer :

30 : $\frac{3}{7}$

Convert the fraction to a higher term as indicated: to forty-ninths

Correct Answer :

31 : $\frac{5}{9}$

Convert the fraction to a higher term as indicated: to thirty-sixths

Correct Answer :

32 : $\frac{4}{5}$

Convert the fraction to a higher term as indicated: to hundreds

Correct Answer :

33 : $\frac{1}{2}$

Convert the fraction to a higher term as indicated: to eighths

Correct Answer :

34 : $\frac{1}{9} = \frac{?}{63}$

Convert the fraction to a higher term as indicated:

Correct Answer :

35 : $\frac{5}{18} = \frac{?}{468}$

Convert the fraction to a higher term as indicated:

Correct Answer :

36 : $\frac{9}{5}$

Convert the improper fraction to a whole or mixed number:

Correct Answer :

37 : $\frac{13}{16} = \frac{?}{7,200}$

Convert the fraction to a higher term as indicated:

Correct Answer :

38 : $\frac{2}{3}$

Find the least common denominator for the fractions: , ,

Correct Answer : 15

39 : $\frac{5}{7}$

Find the least common denominator for the fractions: , , ,

Correct Answer : 252

40 : $\frac{16}{25}$

Find the least common denominator for the fractions: , , ,

Correct Answer : 300

41 : $\frac{2}{3} + \frac{1}{4} =$

Add the fractions and reduce to lowest terms:

Correct Answer :

42 : $\frac{9}{16} + \frac{17}{32} =$

Add the fractions and reduce to lowest terms:

Correct Answer :

43 : $\frac{5}{12} + \frac{22}{30} + \frac{14}{15} =$

Add the fractions and reduce to lowest terms:

Correct Answer :

44 : $5\frac{1}{2} + 2\frac{3}{8} + \frac{1}{4} =$

Add the fractions and reduce to lowest terms:

Correct Answer :

45 : $6\frac{2}{7}+13\frac{4}{28}=$

Add the fractions and reduce to lowest terms:

Correct Answer :

46 : $2\frac{1}{2}+3\frac{2}{3}=$

Add the fractions and reduce to lowest terms:

Correct Answer :

47 : $\frac{5}{6}-\frac{10}{24}=$

Subtract the fractions and reduce to lowest terms:

Correct Answer :

48 : $\frac{8}{9}-\frac{21}{27}=$

Subtract the fractions and reduce to lowest terms:

Correct Answer :

49 : $42\frac{5}{8}-6\frac{1}{3}=$

Subtract the fractions and reduce to lowest terms:

Correct Answer :

50 : $18\frac{2}{5}-\frac{11}{15}=$

Subtract the fractions and reduce to lowest terms:

Correct Answer :

51 : $89-6\frac{2}{3}=$

Subtract the fractions and reduce to lowest terms:

Correct Answer :

52 : $\frac{5}{8}\times\frac{2}{3}=$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

53 : $\frac{24}{52} \times \frac{1}{6} =$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

54 : $\frac{1}{2} \times \frac{10}{22} \times 2 =$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

55 : $6\frac{3}{8} \times \frac{24}{7} =$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

56 : $4\frac{3}{8} \times \frac{2}{5} =$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

57 : $16 \times \frac{5}{9} \times 2\frac{1}{2} =$

Multiply the fractions and reduce to lowest terms:

Correct Answer :

58 : $\frac{1}{5} \div \frac{1}{6} =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

59 : $\frac{11}{24} \div \frac{1}{2} =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

60 : $4 \div \frac{5}{6} =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

61 : $1\frac{1}{9} \div \frac{2}{3} =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

62 : $\frac{26}{55} \div 18 =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

63 : $6\frac{1}{8} \div 1\frac{3}{4} =$

Divide the fractions and reduce to lowest terms:

Correct Answer :

64 : $\frac{3}{8}$

After a party, Duncan noticed that of a pizza was left over. What fractional part of the pizza was eaten?

Correct Answer :

65 : $\frac{88}{5}$

Convert the improper fraction to a whole or mixed number:

Correct Answer : mixed number;

66 : $\frac{3}{7}$

Convert the fraction to a higher terms as indicated: to sixty-thirds

Correct Answer :

67 : $13\frac{5}{6}$

Convert the mixed number to an improper fraction:

Correct Answer :

MULTIPLE CHOICE

68 : $\frac{10}{3}$

Identify the type of fraction and write it in word form:
A : proper fraction, ten-thirds
B : improper fraction, ten-thirds
C : improper fraction, ten-threes
D : proper fraction, ten-threes

Correct Answer : B

69 : $24\frac{19}{20}$

Identify the type of fraction and write it in word form:
A : proper fraction, twenty-four and nineteen-twentieths
B : improper fraction, twenty-four and nineteen-twentieths
C : mixed number, twenty-four and nineteen-twentieths
D : mixed number, twenty-four and nineteen-twenties

Correct Answer : C

70 : $\frac{7}{30}$

Identify the type of fraction and write it in word form:
A : proper fraction; seven-thirtieths
B : mixed number; seven-thirtieths
C : improper fraction; seven-thirtieths
D : proper fraction; seven thirty

Correct Answer : A

71 : $\frac{43}{10}$

Identify the type of fraction and write it in word form:
A : improper fraction; forty-three ten
B : proper fraction; forty-three-tenths
C : improper fraction; forty-three-tenths
D : mixed number; forty-three-tenths

Correct Answer : C

72 : $\frac{131}{16}$

Convert the following improper fraction to a whole number or a mixed number:
A : 8

B :

C :

D :

Correct Answer : B

73 : $\frac{80}{8}$

Convert the following improper fraction to a whole number or a mixed number:

A : 77
B : 8
C : 100
D : 10

Correct Answer : D

74 : $\frac{41}{6}$

Convert the following improper fraction to a whole number or a mixed number:

A : 6.83
B :
C :
D : 7

Correct Answer : A

75 : $13\frac{5}{6}$

Convert the following mixed number to an improper fraction:

A :

B :

C :

D : $9\frac{5}{14}$

Correct Answer : C

76 :

Convert the following mixed number to an improper fraction:

A :

B :

C :

D : $12\frac{3}{4}$

Correct Answer : B

77 :

Convert the following mixed number to an improper fraction:

A :

B :

C :

Correct Answer : D

78 : $\frac{2}{3} = \frac{14}{\quad}$

Convert the fraction to higher terms. Enter the value of the missing denominator:
A : 21
B : 28
C : 42
D : 78

Correct Answer : A

79 : $\frac{9}{17}$

Reduce the fraction to lowest terms:

A :

B :

Correct Answer : B
C :

80 : $\frac{6}{78}$
D :

Reduce the following fraction to lowest terms:

A :

B :

Correct Answer : D
C :

81 : $\frac{169}{13}$
D :

Convert the following improper fraction to a whole number or a mixed number:
A : 13

B :

Correct Answer : A
C :

82 : $\frac{5}{13} = \frac{?}{78}$
D :

Convert the fraction to higher terms. Enter the value of the missing numerator:
A : 6
B : 15
C : 30
D : 11

Correct Answer : C

83 : $\frac{3}{13} = \frac{?}{78}$

Convert the fraction to higher terms. Enter the value of the missing numerator:
A : 9
B : 3
C : 18
D : 27

Correct Answer : C

84 : $\frac{1}{4} = \frac{?}{84}$

Convert the fraction to higher terms. Enter the value of the missing numerator:
A : 14
B : 21
C : 42
D : 84

Correct Answer : B

85 : $\frac{1}{8}$

Find the least common denominator of the fractions: , , ,
A : 32,256
B : 1,008
C : 18
D : 288

Correct Answer : B

86 : $\frac{7}{8}$

Find the least common denominator of the fractions: , , ,
A : 154
B : 18
C : 144
D : 27,648

Correct Answer : C

87 : $\frac{5}{8}$

Find the least common denominator of the fractions: , , ,
A : 49
B : 18
C : 8
D : 504

Correct Answer : D

88 : $\frac{1}{8}$

Find the least common denominator of the fractions: , , ,

A : 504

B : 280

C : 39

D : 560

Correct Answer : B

89 : $\frac{1}{8}+\frac{7}{8}+\frac{7}{8}=$

Add and show as reduced mixed number or proper fraction:

A :

B :

Correct Answer : B

C :

90 : $12\frac{1}{2}$

D :

Verna shipped three packages to Chicago. If the packages weighed , , and pounds, what was the total weight?

pounds

pounds

pounds

A : pounds

Correct Answer : A

B

91: $27\frac{1}{6}$

C :

D :

Lee shipped three packages to New York. If the packages weighed , , and pounds, what was the total weight?

pounds

B : 73 pounds

pounds

A : pounds

Correct Answer : C

92: $\frac{14}{15}-\frac{4}{9}=$

D :

Subtract and reduce:

A :

B :

C :

D :

Correct Answer : C

93 : $\frac{2}{4} \times \frac{2}{8} =$

Multiply and reduce the following:

A :

B :

Correct Answer : A

C :

94 : D : $\frac{5}{6} \times \frac{3}{5} \times \frac{1}{7} =$

Multiply and reduce the following:

A :

B :

Correct Answer : D

C :

95 : D : $5\frac{2}{5}$

A panel measures yards long by yards wide. What is the area of the panel? (Multiply length times width.)

A :

B :

Correct Answer : A

C :

96 : D : $\frac{4}{5} \times \frac{10}{15} =$

Multiply and reduce:

A :

B :

Correct Answer : C

C :

97 : D : $\frac{2}{3} \div \frac{4}{5} =$

Divide the following fractions and reduce to lowest terms:

A :

B :

C :

D :

Correct Answer : B

98 : $3 \div \frac{3}{4} =$

Divide the following fractions and reduce to lowest terms:
A : 4

B :

Correct Answer : A
C :

99 : $\frac{7}{12} \div \frac{12}{16} =$
D :

Divide and reduce:

A :

B :

Correct Answer : B
C :

100 : $\frac{12}{14} \div \frac{10}{12} =$
D :

Divide and reduce:

A :

B :

Correct Answer : D
C :

101 : $\frac{55}{5}$
D :

Convert the following improper fraction to a whole number or a mixed number:

A :

D : 11
B :

Correct Answer : D
C :

102 : $\frac{13}{15}$

Reduce the fraction:

A :

B :

C :

D :

Correct Answer : C

103 : $\frac{16}{84}$

Reduce the following fraction to lowest terms:

A :

B :

Correct Answer : D
C :

104 : $\frac{5}{8}$
D :

Convert the fraction to a higher term, as indicated: to thousands

A :

B :

Correct Answer : B
C :

105 : $4\frac{3}{7}+2\frac{5}{9}+4+\frac{2}{3}=$
D :

Add and reduce:

A :

B :

Correct Answer : D
C :

106 : $\frac{1}{9}-\frac{1}{10}=$
D :

Subtract and reduce the following:

A :

D : 1
B :

Correct Answer : B
C :

107 : $5\frac{33}{10}$

Identify the type of fraction and write it in word form:
A : improper fraction; thirty-three ten
B : proper fraction; thirty-three-tenths
C : improper fraction; five and ten-thirty-thirds

D : mixed number; five and thirty-three-tenths

Correct Answer : D

108 : $14\frac{3}{16}$

Convert the following mixed number to an improper fraction:

A :

B :

Correct Answer : B

C :

109 : $\frac{8}{15}$ divided by $\frac{16}{30}$

D :

Divide the following fractions and reduce to lowest terms:

A : 1

B :

Correct Answer : A

C :

D :

FILL IN THE BLANK

110 : A mathematical way of expressing a part of a whole thing is called a(n) _____.

Correct Answer : fraction

111 : The number on the bottom of the division line of a fraction is called the _____.

Correct Answer : denominator

112 : A fraction in which the numerator is smaller than the denominator is called a(n) _____.

Correct Answer : proper fraction

113 : The number on the top of the division line of a fraction is called the _____.

Correct Answer : numerator

114 : A(n) _____ combines a whole number with a proper fraction.

Correct Answer : mixed number

115 : The least common denominator is the _____, and therefore most efficient, common denominator in addition or subtraction of fractions.

Correct Answer : smallest

116 : A whole number divisible only by itself and l is called a(n) _____.

Correct Answer : prime number

117 : Proper fractions that have the same denominator in addition or subtraction are called _____ fractions.

Correct Answer : like

118 : Inverted numbers are known as _____ of each other.

Correct Answer : reciprocals

119 : In division of fractions, the _____ is inverted.

Correct Answer : divisor

120 : A useful shortcut which simplifies the multiplication of fractions is called _____.

Correct Answer : cancellation

ESSAY

121 : $\frac{40}{13}$

What type of fraction is ? How would you write this fraction in word form?

Correct Answer : improper fraction, forty-thirteenths

122 : $\frac{13}{2}$

Convert to a whole or mixed number and write it in words.

Correct Answer : , six and one half

123 : $4\frac{2}{3}$

Steph is following a recipe that calls for pounds of chicken. She would like to increase the serving size and will have to change all the measurements. Before Steph can change the measurements, she must convert the mixed number to an improper fraction. What should be the improper fraction for the chicken measurement?

Correct Answer :

124 : At the end of the semester, 25 of the 32 students who started an accounting course remained. What fraction represents the total number of students who dropped the course?

Correct Answer :

125 : $14\frac{3}{4}$

Rennata shipped three packages to West Virginia. If the packages weighed , , and pounds, what was the total weight of Rennata’s shipment?

Correct Answer :

126 : $\frac{5}{18}$

A plumber cut pieces of pipe with the following measurements: , , , Find the least common denominator.

Correct Answer : 144

127 : $2\frac{1}{3}$

Price is working at the local Jiffy Lube and during his shift, he used the following cases of oil on his jobs: , , , and How many cases in total did Price use?

Correct Answer :

128 : $1\frac{1}{5}$

Adolia Hunter walked miles on Monday, miles on Wednesday, and miles on Friday. How many total miles did she walk?

Correct Answer :

129 : $9\frac{1}{4}$

A good planting soil is made up of pounds of dirt and pounds of cow manure. How much will the mixture weigh afterwards?

Correct Answer :

130 : $48\frac{1}{3}$

Ruby and her friends are on a road trip that will take a total of miles. If Ruby and her friends have already traveled miles, how many miles are left?

Correct Answer :

131 : $41\frac{1}{4}$

Peter Williams sold acres of his acre ranch. How many acres does Peter have left?

Correct Answer :

132 : $41\frac{4}{15}$

Moriah bought pounds of fertilizer but only used pounds in her garden. How much fertilizer does she have left?

Correct Answer :

133 : $1\frac{3}{4}$

Turner Morris weighs times as much as his sister. If his sister weighs 84 pounds, how much does Turner weigh?

Correct Answer : 147 pounds

134 : $2\frac{1}{2}$

A foundation requires truckloads of concrete. If the concrete truck holds cubic yards of concrete, how many total cubic yards of concrete are used for the foundation?

Correct Answer : 8 cubic yards

135 : $\frac{6}{9}$

Four surveys, taken to assess HD television viewers buying patterns, has the following results: , , , . In order to find a grand total, these results must be multiplied. What is the grand total of the survey taken?

Correct Answer :

136 : $3\frac{1}{3}$

How many feet pieces of wire can be cut from a piece 68 feet long?

Correct Answer :

137 : $118\frac{3}{4}$

Jeremiag Thompson owns acres of undeveloped land. If the property is divided into acre pieces, how many homesites can be developed?

Correct Answer : 95 homesites

138 : $1\frac{4}{5}$

A novelty shop buys beads in bulk from the manufacturer and packages them into pound boxes. How many boxes can be filled from 828 pounds of beads?

Correct Answer : 460 boxes

139 : $7\frac{5}{6}$

Eastern Mining Co. mines tons of coal on Monday, tons on Tuesday, and tons on Wednesday. If their goal is to mine 40 tons this week, how many more tons must be mined?

Correct Answer :

140 : $\frac{2}{3}$

Cicely Bosley borrowed $21,600 from the bank. She has repaid of the loan. What is the remaining balance owed to the bank?

Correct Answer : $7,200

141 : A recent poll showed that 60 of the 540 people interviewed preferred decaffeinated coffee over regular. What fraction of the people preferred regular coffee?

Correct Answer :

142 : $\frac{2}{3}$

Chris Spencer increased his earnings by from last year. If he made $36,480 last year, how much did he make this year?

Correct Answer : $60,800

143 : $2\frac{1}{4}$

Sunny can assemble circuit boards in one hour. Astrid can assemble in one hour. In an 8-hour shift, how many more circuit boards does Astrid assemble than Sunny?

Correct Answer :

144 : $\frac{3}{8}$

Three heirs share an estate of $340,000. Jordan receives , Danielle receives , and Samuel receives the balance. How much does Samuel receive?

Correct Answer : $76,500

145 : $4\frac{1}{2}$

A recipe for a meat casserole calls for tablespoons of minced garlic. If this recipe serves 8 people, recalculate the amount of garlic needed to serve 6 people.

Correct Answer :

146 : $3\frac{1}{7}$

Cosmos Company uses square yards of material to make a slip cover for a chair. The material comes in 1,100 square yard rolls that cost $10,150 each.
a. How many slip covers can be made from each roll
b. What is the cost of each slip cover?

Correct Answer : a.350 slip coversb.$29

147 : $\frac{2}{5}$

A building has a total area of 20,880 square feet. At the present time, the assembly area occupies of the space, the storage area occupies of the area, and the office occupies the balance of the space.
a. How many square feet of space does the office occupy?
b. If the company wants to increase the size of the assembly area by , how many square feet wi

Correct Answer : a.9,048 square feetb.11,136 square feet

148 : $9\frac{3}{4}$

A roll of material is 257 yards long. Janet Barnett cut , , and yards from the roll.
a. How much material did
b. How much material was

Correct Answer : a.56 yardsb.201 yards

149 : $22\frac{1}{4}$

Jasmine Jackson sold acres of her acre ranch. How many acres does Jasmine have left?

Correct Answer :

150 : $\frac{7}{8}$

Rod Harris earns $180 per day. On Monday, he only worked of a day. How much did Rod earn?

Correct Answer : $157.50

151 : $\frac{3}{4}$

If a stone cutter has of an ounce of a precious stone and it takes ounce of that stone to make one ring. How many rings can the stone cutter make from the precious stone that he has?

Correct Answer : 6

152 : A recent poll showed that 54 of the 620 people interviewed preferred non-alcoholic beer over regular. What fraction of the people preferred regular beer?

Correct Answer :

153 : $\frac{1}{4}$

During the week, Ivey earned and of her monthly bonus on two sales transactions. If those bonuses amounted to $840.00, how much was her monthly bonus?

Correct Answer : $1,440.00

154 : $3\frac{1}{2}$

A tailor needs yards of cloth in order to make a jacket. He needs yards in order to make the slacks to complete the suit. If he makes four suits, how much cloth will he need?

Correct Answer :

155 : $9\frac{3}{4}$

A board is feet in length. A carpenter intends to cut blocks from that board of feet in length. How many full sizes pieces can be cut from that board of wood?

Correct Answer : 6

156 : At the end of the semester, 14 of the 29 students who started a Physics course remained. What fraction represents the total number of students who dropped the course?

Correct Answer :