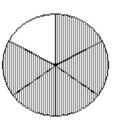
Test Bank for Developmental Mathematics Basic Mathematics and Algebra 4th Edition by Lial IBSN 9780134769585

Full Download: http://downloadlink.org/product/test-bank-for-developmental-mathematics-basic-mathematics-and-algebra-4th-edi MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Write fractions to represent the shaded and unshaded portions of the figure.

1)



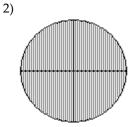
A) $\frac{5}{1}$, $\frac{5}{4}$

Answer: C

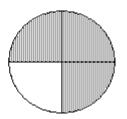
B) $\frac{1}{5}$, $\frac{4}{5}$

C) $\frac{5}{6}$, $\frac{1}{6}$

D) $\frac{1}{6}$, $\frac{5}{6}$



A) $\frac{1}{7}$, $\frac{6}{7}$



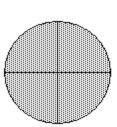
B) $\frac{7}{8}$, $\frac{1}{8}$

C) $\frac{3}{4}$, $\frac{1}{4}$

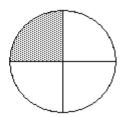
D) $\frac{7}{4}$, $\frac{1}{4}$

Answer: D

3)



A) $\frac{5}{8}$, $\frac{3}{8}$



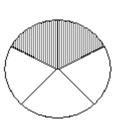
B) $\frac{5}{3}$, $\frac{3}{3}$

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

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

Answer: C

4)



A) $\frac{3}{2}$, $\frac{1}{2}$

B) $\frac{2}{3}$, $\frac{1}{3}$

C) $\frac{2}{5}$, $\frac{3}{5}$

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

5)



A) $\frac{3}{1}$, $\frac{3}{2}$

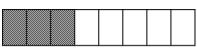
B) $\frac{1}{4}$, $\frac{3}{4}$

C) $\frac{3}{4}$, $\frac{1}{4}$

D) $\frac{1}{3}$, $\frac{2}{3}$

Answer: C

6)



A) $\frac{5}{3}$, $\frac{5}{2}$

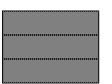
B) $\frac{3}{5}$, $\frac{2}{5}$

C) $\frac{3}{8}$, $\frac{5}{8}$

D) $\frac{5}{8}$, $\frac{3}{8}$

Answer: C

7)



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



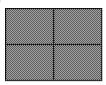
B) $\frac{5}{3}$, $\frac{1}{3}$

C) $\frac{5}{6}$, $\frac{1}{6}$

D) $\frac{1}{5}$, $\frac{1}{1}$

Answer: B

8)



A) $\frac{7}{8}$, $\frac{1}{8}$



B) $\frac{7}{4}$, $\frac{1}{4}$

 $C)\frac{7}{1},\frac{1}{4}$

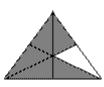
D) $\frac{1}{7}$, $\frac{4}{1}$

Answer: B

9)



A) $\frac{11}{12}$, $\frac{1}{12}$

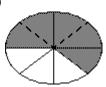


B) $\frac{11}{1}$, $\frac{1}{12}$

C) $\frac{11}{6}$, $\frac{1}{6}$

D) $\frac{1}{11}$, $\frac{12}{1}$

10)



A) $\frac{5}{3}$, $\frac{1}{3}$

B) $\frac{5}{8}$, $\frac{3}{8}$

C) $\frac{3}{8}$, $\frac{5}{8}$

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

Answer: B

Solve the problem.

11) Of 11 crates of apples, 9 crates are Granny Smiths. What fraction of the crates are Granny Smiths?

A) $\frac{9}{11}$

B) $\frac{11}{9}$

C) $\frac{11}{2}$

D) $\frac{2}{11}$

Answer: A

12) Of 19 crates of apples, 7 crates are Granny Smiths. What fraction of the crates are not Granny Smiths?

A) $\frac{7}{19}$

B) $\frac{19}{7}$

C) $\frac{19}{12}$

D) $\frac{12}{19}$

Answer: D

13) A high school basketball team has 9 members. If 7 of the team members are juniors, find the fraction of the team members that are juniors.

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

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

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

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

Answer: A

14) A high school basketball team has 12 members. If 7 of the team members are juniors and the rest are seniors, find the fraction of the team members that are seniors.

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

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

C) $\frac{12}{7}$

D) $\frac{7}{12}$

Answer: B

15) In a microbiology class of 37 students, 23 students are graduate students. What fraction of the students are graduate students?

A) $\frac{37}{14}$

B) $\frac{23}{37}$

C) $\frac{37}{23}$

D) $\frac{14}{37}$

Answer: B

16) In a microbiology class of 29 students, 22 students are graduate students. What fraction of the students are not graduate students?

A) $\frac{7}{29}$

B) $\frac{29}{7}$

C) $\frac{22}{29}$

D) $\frac{29}{22}$

Answer: A

17) Of 126 bicycles in a bike rack, 59 are mountain bikes. What fraction of the bicycles are mountain bikes?

A) $\frac{126}{67}$

B) $\frac{67}{126}$

C) $\frac{126}{59}$

D) $\frac{59}{126}$

Answer: D

18) Of 100 bicycles in a bike rack, 41 are mountain bikes. What fraction of the bicycles are not mountain bikes?

A)
$$\frac{100}{59}$$

B)
$$\frac{59}{100}$$

C)
$$\frac{100}{41}$$

D) $\frac{41}{100}$

Answer: B

19) Of 202 trees in the park, 29 are coniferous trees. What fraction of the trees are coniferous trees?

A)
$$\frac{202}{29}$$

B)
$$\frac{202}{173}$$

C)
$$\frac{29}{202}$$

Answer: C

20) Of 194 trees in the park, 43 are coniferous trees. What fraction of the trees are not coniferous trees?

A)
$$\frac{194}{151}$$

B)
$$\frac{151}{194}$$

C)
$$\frac{43}{194}$$

Answer: B

Identify the numerator and denominator.

 $21)\frac{6}{7}$

- A) Numerator 13
- B) Numerator $\frac{7}{6}$
- C) Numerator 7
- D) Numerator 6

Denominator 1

Denominator 6

Denominator 6

Denominator 7

Answer: D

22) $\frac{27}{13}$

- A) Numerator 1
- B) Numerator 13
- C) Numerator $\frac{27}{13}$
- D) Numerator 27

Denominator $\frac{13}{27}$

Denominator 27

Denominator 1

Denominator 13

Answer: D

List the proper fractions in the group.

23)
$$\frac{9}{7}$$
, $\frac{5}{12}$, $\frac{7}{15}$, $\frac{3}{17}$

A)
$$\frac{5}{12}$$
, $\frac{7}{15}$, $\frac{3}{17}$

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

C)
$$\frac{9}{7}$$
, $\frac{5}{12}$, $\frac{7}{15}$, $\frac{3}{17}$

D)
$$\frac{9}{7}$$
, $\frac{13}{17}$

Answer: A

 $24)\frac{1}{4}, \frac{11}{7}, \frac{18}{18}, \frac{5}{4}, \frac{8}{3}$

A)
$$\frac{1}{4}$$
, $\frac{11}{7}$, $\frac{18}{18}$, $\frac{5}{4}$, $\frac{8}{3}$ B) $\frac{1}{4}$, $\frac{5}{4}$, $\frac{8}{3}$

B)
$$\frac{1}{4}$$
, $\frac{5}{4}$, $\frac{8}{3}$

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

D)
$$\frac{11}{7}$$
, $\frac{18}{18}$, $\frac{5}{4}$, $\frac{8}{3}$

$$25)\frac{7}{12},\,\frac{14}{13},\,\frac{7}{2},\,\frac{11}{4},\,\frac{3}{4}$$

A)
$$\frac{7}{2}$$
, $\frac{11}{4}$, $\frac{3}{4}$

B)
$$\frac{14}{13}$$
, $\frac{7}{2}$, $\frac{11}{4}$

C)
$$\frac{7}{12}$$
, $\frac{3}{4}$

D)
$$\frac{7}{12}$$
, $\frac{11}{4}$, $\frac{3}{4}$

Answer: C

$$26)\frac{16}{13},\,\frac{13}{12},\,\frac{11}{8},\,\frac{17}{17},\,\frac{2}{3}$$

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

B)
$$\frac{16}{13}$$
, $\frac{13}{12}$, $\frac{11}{8}$, $\frac{2}{3}$ C) $\frac{13}{12}$, $\frac{11}{8}$, $\frac{17}{17}$

C)
$$\frac{13}{12}$$
, $\frac{11}{8}$, $\frac{17}{17}$

D)
$$\frac{11}{8}$$

Answer: A

$$27)\frac{3}{7},\frac{5}{19},\frac{7}{7},\frac{2}{11},\frac{16}{219}$$

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

C)
$$\frac{3}{7}$$
, $\frac{5}{19}$, $\frac{2}{11}$, $\frac{16}{219}$

B)
$$\frac{3}{7}$$
, $\frac{5}{19}$, $\frac{7}{7}$, $\frac{2}{11}$, $\frac{16}{219}$

D)
$$\frac{5}{19}$$
, $\frac{7}{7}$, $\frac{2}{11}$

Answer: C

$$28)\frac{9}{7},\frac{5}{12},\frac{7}{15},\frac{19}{12},\frac{3}{17}$$

A)
$$\frac{9}{7}$$
, $\frac{19}{12}$

C)
$$\frac{9}{7}$$
, $\frac{5}{12}$, $\frac{7}{15}$, $\frac{19}{12}$, $\frac{3}{17}$

B)
$$\frac{9}{7}$$
, $\frac{5}{12}$, $\frac{7}{15}$

D)
$$\frac{5}{12}$$
, $\frac{7}{15}$, $\frac{3}{17}$

Answer: D

List the improper fractions in the group.

$$(29)$$
 $\frac{16}{2}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{52}{38}$, $\frac{24}{24}$

A)
$$\frac{16}{2}$$
, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{24}{24}$

C)
$$\frac{16}{2}$$
, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{52}{38}$, $\frac{24}{24}$

B) $\frac{16}{2}$, $\frac{52}{38}$, $\frac{24}{24}$

D)
$$\frac{5}{16}$$
, $\frac{3}{8}$

Answer: B

$$30)\frac{49}{2}, \frac{9}{33}, \frac{7}{8}, \frac{60}{33}, \frac{50}{50}$$

A)
$$\frac{49}{2}$$
, $\frac{60}{33}$, $\frac{50}{50}$

C)
$$\frac{49}{2}$$
, $\frac{9}{33}$, $\frac{7}{8}$, $\frac{60}{33}$, $\frac{50}{50}$

Answer: A

B) $\frac{9}{33}$, $\frac{7}{8}$

D) $\frac{49}{2}$, $\frac{9}{33}$, $\frac{7}{8}$, $\frac{50}{50}$

$$31)\frac{23}{6}, \frac{9}{61}, \frac{2}{3}, \frac{26}{25}, \frac{18}{18}$$

A)
$$\frac{23}{6}$$
, $\frac{9}{61}$, $\frac{2}{3}$, $\frac{18}{18}$

C)
$$\frac{9}{61}$$
, $\frac{2}{3}$

B)
$$\frac{23}{6}$$
, $\frac{26}{25}$, $\frac{18}{18}$

D)
$$\frac{23}{6}$$
, $\frac{9}{61}$, $\frac{2}{3}$, $\frac{26}{25}$, $\frac{18}{18}$

Answer: B

$$32)\frac{42}{7}, \frac{7}{63}, \frac{2}{7}, \frac{44}{10}, \frac{12}{12}$$

A)
$$\frac{42}{7}$$
, $\frac{7}{63}$, $\frac{2}{7}$, $\frac{44}{10}$, $\frac{12}{12}$

C)
$$\frac{42}{7}$$
, $\frac{44}{10}$, $\frac{12}{12}$

B) $\frac{7}{63}$, $\frac{2}{7}$

D)
$$\frac{42}{7}$$
, $\frac{7}{63}$, $\frac{2}{7}$, $\frac{12}{12}$

Answer: C

33)
$$\frac{15}{3}$$
, $\frac{9}{58}$, $\frac{4}{8}$, $\frac{53}{53}$, $\frac{40}{40}$

A)
$$\frac{15}{3}$$
, $\frac{9}{58}$, $\frac{4}{8}$, $\frac{40}{40}$

C)
$$\frac{15}{3}$$
, $\frac{53}{53}$, $\frac{40}{40}$

B) $\frac{9}{58}$, $\frac{4}{8}$

D)
$$\frac{15}{3}$$
, $\frac{9}{58}$, $\frac{4}{8}$, $\frac{53}{53}$, $\frac{40}{40}$

Answer: C

$$34)\frac{27}{9},\frac{5}{16},\frac{3}{4},\frac{32}{11},\frac{14}{14}$$

A)
$$\frac{27}{9}$$
, $\frac{5}{16}$, $\frac{3}{4}$, $\frac{14}{14}$

C)
$$\frac{27}{9}$$
, $\frac{32}{11}$, $\frac{14}{14}$

B) $\frac{5}{16}$, $\frac{3}{4}$

D)
$$\frac{27}{9}$$
, $\frac{5}{16}$, $\frac{3}{4}$, $\frac{32}{11}$, $\frac{14}{14}$

Answer: C

Fill in the blanks to complete the sentence.

- 35) The fraction $\frac{17}{28}$ represents ____ of the ____ equal parts into which a whole is divided.
 - A) 28, 17

B) $\frac{17}{28}$, 17

C) 17, 28

D) $\frac{17}{28}$, 28

Answer: C

Write the mixed number as an improper fraction.

36)
$$7\frac{2}{3}$$

A) $\frac{21}{3}$

B) $\frac{21}{2}$

C) $\frac{23}{3}$

D) $\frac{23}{2}$

37) $8\frac{5}{6}$

A) $\frac{53}{6}$

B) $\frac{53}{5}$

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

D) $\frac{48}{6}$

Answer: A

38) $4\frac{5}{7}$

A) $\frac{33}{7}$

B) $\frac{33}{5}$

C) $\frac{28}{5}$

D) $\frac{28}{7}$

Answer: A

39) $7\frac{5}{6}$

A) $\frac{47}{6}$

B) $\frac{42}{5}$

C) $\frac{42}{6}$

D) $\frac{47}{5}$

Answer: A

40) $18\frac{3}{10}$

A) $\frac{21}{10}$

B) $\frac{183}{10}$

C) $\frac{54}{10}$

D) $\frac{193}{10}$

Answer: B

41) $17\frac{9}{10}$

A) 306

B) $\frac{153}{10}$

C) $\frac{179}{10}$

D) 35

Answer: C

Write the improper fraction as a whole or mixed number.

42) $\frac{43}{3}$

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

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

C) $13\frac{1}{7}$

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

Answer: A

43) $\frac{15}{4}$

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

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

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

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

44) $\frac{49}{5}$

A) $9\frac{4}{7}$

B) $8\frac{4}{5}$

C) $10\frac{4}{5}$

D) $9\frac{4}{5}$

Answer: D

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

A) $3\frac{1}{7}$

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

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

D) $2\frac{1}{6}$

Answer: B

46) $\frac{30}{8}$

A) $3\frac{6}{7}$

B) $4\frac{6}{8}$

C) $2\frac{6}{8}$

D) $3\frac{6}{8}$

Answer: D

 $47)\frac{63}{7}$

A) 64

B) 62

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

D) 9

Answer: D

48) $\frac{213}{7}$

A) $\frac{7}{213}$

B) $30\frac{3}{7}$

C) $213\frac{7}{213}$

D) $213\frac{213}{7}$

Answer: B

49) $\frac{1133}{14}$

A) $1133\frac{1133}{14}$

B) $80\frac{13}{14}$

C) $\frac{14}{1133}$

D) 1133 14 1133

Answer: B

 $50) \, \frac{2982}{14}$

A) 213

B) $\frac{213}{2}$

C) 2983

D) 2981

Answer: A

Find all the factors for the number.

51) 30

A) 5, 6, 10, 30

C) 1, 2, 3, 5, 6, 10, 20, 30

Answer: B

B) 1, 2, 3, 5, 6, 10, 15, 30

D) 1, 5, 6, 30

52) 28 A) 1, 2, 7, 14, 28	B) 1, 2, 4, 7, 14, 28	C) 2, 7, 14, 28	D) 1, 2, 4, 7, 8, 14, 28
Answer: B	2) 2, 2, 1, 1 2, 20	C) -)	2 / 1/ 2 / 1/ 0/ 11/ 2 0
53) 36			
A) 1, 2, 3, 4, 6, 9, 12 C) 2, 4, 6, 12, 18, 36		B) 1, 2, 3, 4, 5, 6, 9, 10, D) 1, 2, 4, 6, 12, 18, 36	
Answer: A		D) 1, 2, 1 , 0, 12, 10, 30	
54) 45			
A) 1, 3, 5, 15, 45		B) 1, 3, 5, 9, 15, 45	
C) 1, 2, 3, 5, 9, 15, 3	0, 45	D) 1, 3, 5, 9, 15, 30, 45	
Answer: B			
55) 56			
A) 2, 4, 7, 8, 14, 28	0 20 E/	B) 1, 2, 3, 4, 7, 8, 14, 16 D) 1, 2, 4, 7, 8, 14, 28,	
C) 1, 2, 4, 7, 8, 14, 1 Answer: D	0, 20, 30	D) 1, 2, 4, 7, 6, 14, 26,	30
THISWEI. D			
56) 63	((D	D) 0 5 7 0 11 01 (0	
A) 1, 2, 3, 7, 9, 21, 3 C) 1, 3, 5, 7, 9, 11, 2		B) 3, 5, 7, 9, 11, 21, 63 D) 1, 3, 7, 9, 21, 63	
Answer: D	-,	_	
57) 66			
A) 1, 2, 3, 4, 11, 16,		B) 1, 3, 11, 22, 33, 66	
C) 1, 2, 3, 9, 11, 22,	33, 66	D) 1, 2, 3, 6, 11, 22, 33	, 66
Answer: D			
58) 70			
A) 1, 2, 5, 7, 35, 70	05. 5 0	B) 1, 3, 5, 7, 9, 15, 20, 5	
C) 1, 2, 5, 7, 10, 14, Answer: C	35, 70	D) 1, 2, 3, 5, 7, 9, 15, 3	5, 70
Aliswer. C			
59) 72			
A) 1, 2, 3, 4, 6, 9, 12 C) 1, 2, 3, 4, 6, 8, 9,		B) 1, 2, 3, 4, 5, 6, 7, 8, 9 D) 1, 2, 3, 4, 6, 8, 9, 12	
Answer: C	12, 10, 24, 00, 72	D) 1, 2, 0, 4, 0, 0, 7, 12,	, 24, 50, 72
60) 84	8, 9, 12, 14, 21, 28, 42, 84	B) 1, 2, 3, 4, 7, 14, 21,	28 42 84
C) 1, 2, 3, 4, 6, 7, 12		D) 1, 2, 3, 4, 6, 7, 12, 1	
Answer: C		·	
de whether the number is	nrima or composito		
61) 27	prime or composite.		

Decide

A) Prime

Answer: B

B) Composite

62) 71			
A) Prime		B) Composite	
Answer: A			
63) 100			
A) Prime		B) Composite	
Answer: B			
64) 11			
A) Prime		B) Composite	
Answer: A			
65) 9			
A) Prime		B) Composite	
Answer: B			
·	n of the number. Write the answer v	vith exponents when repe	eated factors appear.
66) 12			
A) 2 ² · 3	B) 3 ²	C) 4 · 3	D) 4 · 2
Answer: A			
67) 265			
A) 5 · 51	B) 5 · 53	C) 5 ²	D) $5^2 \cdot 53$
Answer: B			
68) 448			
A) 2 ⁵ · 7	B) 2 ⁵ · 11	C) 2 ⁶ · 7	D) 2 ⁶ · 5
Answer: C	,	,	,
69) 24			
A) $2^2 \cdot 3$	B) 2 ² · 3 ²	C) 2 ³ · 3	D) 2 ³ · 3 ²
Answer: C	<i>b)</i> 2	C) 2 3	<i>D) 2</i> 0
70) 154	2		. 2
A) 2 · 7 · 11	B) 7 ² · 2	C) 14 · 11	D) 2 ² · 11
Answer: A			
71) 350			
A) 2 · 5 · 7	B) 2 · 5 ² · 7	C) 14 · 5 ²	D) $2^2 \cdot 5^2 \cdot 7$
Answer: B			
72) 468			
A) 3 ⁴ · 13	B) 2 ³ · 3 ² · 13	C) 2 ⁴ · 13	D) $2^2 \cdot 3^2 \cdot 13$
Answer: D			
73) 2600			
A) 2 ³ · 5 ³ · 13	B) 2 · 5 ⁴ · 13	C) 2 ³ · 5 ² · 13	D) 2 ⁴ · 5 · 13
Answer: C	_,_ 1	-,	_,_ 0 10

74) 2600 A) 2 ³ · 5 ² · 13 Answer: A	B) 2 ³ · 5 ² · 11	C) 2 ³ · 5 · 13	D) 2 ² · 5 ² · 13
75) 5940 A) 2 ² · 3 ³ · 11 Answer: B	B) $2^2 \cdot 3^3 \cdot 5 \cdot 11$	C) $2^3 \cdot 3^2 \cdot 5 \cdot 11$	D) $2^2 \cdot 3^3 \cdot 5 \cdot 7$
Determine whether the number is	s divisible by 2, 3, 4, 5, 6, 7, 8,	9, and/or 10.	
76) 24 A) 2, 3, 4, 6 Answer: C	B) 2, 3, 4, 8	C) 2, 3, 4, 6, 8	D) 2, 3, 4
77) 1656 A) 2, 3, 6, 8 Answer: D	B) 2, 3, 4, 8	C) 2, 3, 4	D) 2, 3, 4, 6, 8, 9
78) 151 A) None Answer: A	B) 3, 7	C) 3, 5	D) 3
79) 1849 A) None Answer: A	B) 3, 7	C) 3, 5	D) 3
80) 96,773 A) None Answer: A	B) 3	C) 3, 7	D) 3, 5
81) 4514 A) 2 Answer: A	B) 4	C) 2, 3, 4	D) 3, 4
82) 16,206 A) 2, 3, 4 Answer: D	B) 4, 5, 6	C) 3, 4, 6	D) 2, 3, 6
83) 5135 A) 5, 10 Answer: B	B) 5	C) 10	D) 2, 5, 10
84) 3723 A) 3, 9 Answer: C	B) 9	C) 3	D) 2, 3, 9
85) 8740 A) 2, 5 Answer: C	B) 4, 5, 10	C) 2, 4, 5, 10	D) 4, 5

Write the fraction in lowest terms.

86) $\frac{4}{6}$

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

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

C) $\frac{2}{6}$

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

Answer: A

87) $\frac{4}{14}$

A) $\frac{2}{14}$

B) $\frac{4}{14}$

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

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

Answer: D

88) $\frac{15}{20}$

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

B) $\frac{15}{20}$

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

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

Answer: C

89) $\frac{30}{80}$

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

B) $\frac{10}{8}$

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

D) $\frac{30}{80}$

Answer: A

90) $\frac{42}{47}$

A) $\frac{21}{23}$

B) $\frac{1}{47}$

C) $\frac{23}{21}$

D) $\frac{42}{47}$

Answer: D

91) $\frac{30}{40}$

A) $\frac{10}{4}$

B) $\frac{30}{40}$

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

D) $\frac{3}{10}$

Answer: C

92) $\frac{52}{56}$

A) $\frac{4}{14}$

B) $\frac{52}{56}$

C) $\frac{13}{14}$

D) $\frac{13}{4}$

93)
$$\frac{60}{105}$$

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

B)
$$\frac{4}{15}$$

C)
$$\frac{60}{105}$$

D)
$$\frac{15}{7}$$

Answer: A

94)
$$\frac{195}{208}$$

A)
$$\frac{15}{13}$$

B)
$$\frac{195}{208}$$

C)
$$\frac{13}{16}$$

D)
$$\frac{15}{16}$$

Answer: D

95)
$$\frac{336}{16}$$

A)
$$\frac{336}{16}$$

B)
$$\frac{1}{21}$$

Answer: C

Write the numerator and denominator of the fraction as a product of prime factors and divide by the common factors. Then write the fraction in lowest terms.

96)
$$\frac{18}{24}$$

A)
$$\frac{3 \cdot 3}{2 \cdot 2 \cdot 3} = \frac{3}{4}$$

B)
$$\frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 3} = \frac{3}{2}$$

$$C) \frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 3} = \frac{3}{4}$$

A)
$$\frac{3 \cdot 3}{2 \cdot 2 \cdot 3} = \frac{3}{4}$$
 B) $\frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 3} = \frac{3}{2}$ C) $\frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 3} = \frac{3}{4}$ D) $\frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 3} = \frac{3}{2}$

Answer: C

97)
$$\frac{15}{60}$$

$$A) \frac{3 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 5} = \frac{1}{4}$$

B)
$$\frac{1\cdot 5}{2\cdot 3\cdot 5} = \frac{5}{4}$$

$$C) \frac{2 \cdot 2 \cdot 3 \cdot 5}{2 \cdot 3 \cdot 5} = \frac{5}{1}$$

A)
$$\frac{3 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 5} = \frac{1}{4}$$
 B) $\frac{1 \cdot 5}{2 \cdot 3 \cdot 5} = \frac{5}{4}$ C) $\frac{2 \cdot 2 \cdot 3 \cdot 5}{2 \cdot 3 \cdot 5} = \frac{5}{1}$ D) $\frac{2 \cdot 3 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 5} = \frac{1}{5}$

Answer: A

98)
$$\frac{40}{84}$$

A)
$$\frac{2 \cdot 2 \cdot 2 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 7} = \frac{5}{3}$$

B)
$$\frac{2 \cdot 2 \cdot 5 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 7} = \frac{25}{21}$$

A)
$$\frac{2 \cdot 2 \cdot 2 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 7} = \frac{5}{3}$$
 B) $\frac{2 \cdot 2 \cdot 5 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 7} = \frac{25}{21}$ C) $\frac{2 \cdot 2 \cdot 2 \cdot 5}{2 \cdot 2 \cdot 3 \cdot 7} = \frac{10}{21}$ D) $\frac{2 \cdot 2 \cdot 5}{2 \cdot 3 \cdot 7} = \frac{10}{21}$

D)
$$\frac{2 \cdot 2 \cdot 5}{2 \cdot 3 \cdot 7} = \frac{10}{21}$$

Answer: C

99)
$$\frac{1512}{220}$$

A)
$$\frac{2 \cdot 3 \cdot 3 \cdot 7}{11} = \frac{378}{55}$$

C)
$$\frac{2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 5 \cdot 11} = \frac{378}{55}$$

B)
$$\frac{2 \cdot 2 \cdot 2}{2}$$

B)
$$\frac{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 2 \cdot 5 \cdot 11} = \frac{378}{55}$$

D)
$$\frac{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 2 \cdot 5 \cdot 11} = \frac{1512}{220}$$

Answer: B

Write the fractions in lowest terms. Then determine whether the pair of fractions is equivalent or not equivalent.

100)
$$\frac{4}{6}$$
 and $\frac{12}{18}$

A) Equivalent

B) Not equivalent

Answer: A

- 101) $\frac{2}{8}$ and $\frac{32}{40}$
 - A) Equivalent

B) Not equivalent

Answer: B

- 102) $\frac{4}{7}$ and $\frac{11}{14}$
 - A) Equivalent

Answer: B

B) Not equivalent

- 103) $\frac{7}{8}$ and $\frac{140}{160}$
 - A) Equivalent

B) Not equivalent

- Answer: A
- 104) $\frac{9}{36}$ and $\frac{8}{32}$
 - A) Equivalent

B) Not equivalent

- Answer: A
- 105) $\frac{50}{90}$ and $\frac{55}{108}$
 - A) Equivalent

B) Not Equivalent

Answer: B

Multiply. Write the answer in lowest terms.

106)
$$\frac{5}{9} \cdot \frac{1}{5}$$

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

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

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

D) $\frac{5}{45}$

Answer: C

107)
$$\frac{1}{10} \cdot \frac{5}{8}$$

A) $\frac{5}{13}$

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

C) $\frac{1}{16}$

D) $\frac{5}{80}$

 $108)\,\frac{1}{2}\cdot\frac{1}{9}$

A) $\frac{2}{11}$

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

C) 18

D) $\frac{1}{18}$

Answer: D

 $109)\,\frac{4}{5}\cdot\frac{8}{9}$

A) $\frac{45}{32}$

B) $\frac{10}{9}$

C) $\frac{6}{7}$

D) $\frac{32}{45}$

Answer: D

110) $\frac{1}{6} \cdot \frac{12}{19}$

A) $\frac{2}{19}$

B) $\frac{72}{19}$

C) $\frac{19}{72}$

D) 2

Answer: A

 $111)\,\frac{2}{7}\cdot\frac{3}{5}\cdot\frac{1}{2}$

A) $\frac{3}{14}$

B) $\frac{3}{35}$

C) $\frac{5}{21}$

D) $\frac{6}{35}$

Answer: B

112) $\frac{1}{5} \cdot \frac{3}{8} \cdot \frac{1}{10}$

A) $\frac{3}{400}$

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

C) $\frac{3}{40}$

D) $\frac{1}{50}$

Answer: A

 $113)\,\frac{12}{25}\cdot\frac{40}{66}\cdot\frac{15}{32}$

A) $\frac{3}{11}$

B) $\frac{6}{11}$

C) $\frac{3}{44}$

D) $\frac{3}{22}$

Answer: D

 $114)\,\frac{48}{64}\cdot\frac{16}{27}\cdot\frac{45}{24}$

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

B) $\frac{5}{18}$

C) $\frac{5}{24}$

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

Multiply. Write the answer in lowest terms and as a whole or mixed number where possible.

115)
$$27 \cdot \frac{2}{9}$$

A) 6

B) $10\frac{11}{72}$

C) 3

D) 8

Answer: A

116) $14 \cdot \frac{1}{6}$

A) 1

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

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

D) $2\frac{1}{3}$

Answer: D

117) 120 $\cdot \frac{1}{4}$

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

B) $\frac{120}{4}$

C) 30

D) 3

Answer: C

118) 200 $\cdot \frac{2}{5}$

A) 200 Answer: D

B) 100

C) 250

D) 80

119) $\frac{2}{3} \cdot 120$

A) 82 Answer: D

B) 120

C) 60

D) 80

120) $\frac{1}{4} \cdot 169$

A) 169

B) $42\frac{1}{4}$

C) $\frac{1}{676}$

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

Answer: B

121) $50 \cdot \frac{3}{10} \cdot \frac{4}{21}$

A) $\frac{7}{20}$

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

C) 60

D) $2\frac{6}{7}$

Answer: D

 $122)\,\frac{22}{16}\cdot 176\cdot \frac{2}{11}$

A) $50\frac{2}{7}$

B) 44

C) 40

D) $45\frac{5}{7}$

Answer: B

Find the area of the rectangle.

123)



$$A = \frac{6}{9}$$
 foot

$$B = \frac{1}{3}$$
 foot

- A) $\frac{7}{12}$ square foot B) $\frac{1}{2}$ square foot C) $\frac{6}{27}$ square foot D) $\frac{2}{9}$ square foot

Answer: D

$$A = \frac{2}{11}$$
 in.

$$B = 11$$
 in.

B)
$$\frac{22}{11}$$
 in.²

C)
$$\frac{123}{11}$$
 in.²

D)
$$\frac{13}{11}$$
 in.²

Answer: A

____A

$$A = \frac{16}{33} \text{ mi}$$

$$B = \frac{21}{22} \text{ mi}$$

A)
$$\frac{336}{726}$$
 mi²

B)
$$\frac{37}{55}$$
 mi²

C)
$$\frac{56}{121}$$
 mi²

D)
$$\frac{15}{22}$$
 mi²

Answer: C

Solve the problem. Write the answer in lowest terms and as a whole or mixed number where possible.

126) Find the area of a rectangular banner having a length of 15 feet and a width of $\frac{5}{6}$ foot.

A)
$$\frac{5}{18}$$
 ft²

C)
$$37\frac{1}{2}$$
 ft²

D)
$$12\frac{1}{2}$$
 ft²

Answer: D

127) Find the area of a rectangular table top having a length of 4 feet and a width of $\frac{13}{4}$	feet.
---	-------

A) 13 ft²

- B) $\frac{1}{13}$ ft²
- C) $4\frac{1}{4}$ ft²
- D) $8\frac{1}{2}$ ft²

Answer: A

128) A rectangular parking lot measures $\frac{3}{10}$ mile by $\frac{2}{13}$ mile. Find the area of the parking lot.

- A) $\frac{3}{65}$ mi²
- B) $\frac{5}{23}$ mi²
- C) $\frac{2}{65}$ mi²
- D) $\frac{1}{26}$ mi²

Answer: A

129) Layer Cake A is $\frac{3}{8}$ yard long and $\frac{1}{4}$ yard wide. Layer Cake B is $\frac{3}{8}$ yard long and $\frac{3}{4}$ yard wide. Which cake has

the larger area?

A) Layer Cake B

B) Layer Cake A

Answer: A

Solve the problem.

130) A rectangular parking lot measures $\frac{3}{8}$ mile by $\frac{2}{15}$ mile. Find the area of the parking lot.

- A) $\frac{5}{23}$ mi²
- B) $\frac{1}{30}$ mi²
- C) $\frac{1}{24}$ mi²
- D) $\frac{1}{20}$ mi²

Answer: D

131) Find the area of a rectangular table top having a length of 5 feet and a width of $\frac{13}{4}$ feet.

A) 9 ft²

B) $4\frac{1}{2}$ ft²

- C) $16\frac{1}{4}$ ft²
- D) $\frac{4}{65}$ ft²

Answer: C

132) A rectangular sheet of paper measures $\frac{1}{5}$ foot by $\frac{2}{3}$ foot. Find its area.

A) 1 ft²

- B) $\frac{2}{15}$ ft²
- C) $\frac{3}{8}$ ft²

D) $\frac{1}{5}$ ft²

Answer: B

133) A rectangular dog bed is $\frac{1}{3}$ yard by $\frac{4}{5}$ yard. Find its area.

- A) $\frac{4}{15}$ yd²
- B) $\frac{5}{8}$ yd²

C) 1 yd^2

D) $\frac{1}{3}$ yd²

			2		
134)	A warehouse stores 1750 different inventory items, of which $\frac{2}{25}$ are perishable. How many of the inventory				
	items are perishable? A) 875 items	B) 140 items	C) 144 items	D) 138 items	
	Answer: B				
135)	Mr. and Mrs. Jones have a hor	me equity loan of \$43,700. The	ey have paid off $\frac{4}{23}$ of the loan	n. How much of the	
	loan have they paid off? A) \$7600	B) \$8000	C) \$7200	D) \$1900	
	Answer: A				
136)	During elections at the local u	nion, $\frac{4}{11}$ of the members vote	ed. If there are 165 members, l	now many voted?	
	A) 64 members	B) 56 members	C) 15 members	D) 60 members	
	Answer: D				
137)	A restaurant has a capacity of	200 patrons. If the restaurant	is $\frac{3}{20}$ full, how many patrons	are at the restaurant?	
	A) 27 patrons Answer: C	B) 33 patrons	C) 30 patrons	D) 10 patrons	
138)	Bob can machine 40 units in 1 A) 8 units	0 hours. How many units can B) 80 units	he machine in 2 hours? C) 2 unit(s)	D) 4 units	
	Answer: A				
139)	Emily can ride her bike 24 mil A) 4 miles	les in 6 hours. How many mil B) 8 miles	es can she ride in 2 hours? C) 2 mile(s)	D) 48 miles	
	Answer: B	2) 6 111166	c) - Imie(e)	2) 10 111100	
140)	One fifth of Mary's earned inc withholdings are for taxes. W				
	A) $\frac{1}{5}$	B) $\frac{4}{9}$	C) $\frac{4}{15}$	D) $\frac{3}{20}$	
	Answer: D	,	10	20	
141)	One fifth of Joan's earned incoincome tax. What fraction of J			noldings are for federal	
	A) $\frac{4}{15}$	B) $\frac{2}{3}$	C) $\frac{2}{25}$	D) $\frac{3}{50}$	
	Answer: D				
142)	One fifth of Joe's earned incorsecurity (FICA). What fraction		_	ings are for social	
	A) $\frac{3}{5}$	B) $\frac{1}{4}$	C) $\frac{2}{15}$	D) $\frac{1}{15}$	

Answer: D

143) A certain scholarship will pay for $\frac{1}{4}$ of a student's total tuition. How much will a student who receives this

scholarship pay toward tuition, if tuition is \$400?

A) \$398

B) \$300

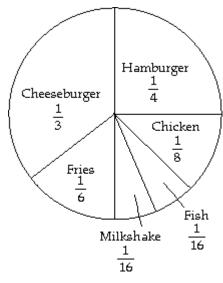
C) \$100

D) \$350

Answer: B

Use the circle graph to answer the question.

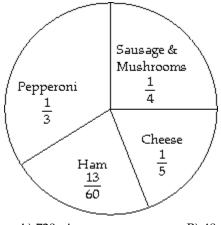
144) Last year, one family ate fast food 576 times. The circle graph shows the types of food eaten for the year. Find the number of times fish was eaten.



- A) 72 times
- B) 36 times
- C) 192 times
- D) 144 times

Answer: B

145) On a typical night at Skinny's Pizza, 240 pizzas are ordered. How many pepperoni pizzas are ordered?



- A) 720 pizzas
- B) 48 pizzas
- C) 80 pizzas
- D) 60 pizzas

The following table shows the earnings for the Juarez family last year. Use this information to answer the question.

Month	Earnings	Month	Earnings		
Jan.	\$1400 \$1150	July	\$1300 \$2450		
Feb. Mar.	\$1150 \$2950	Aug. Sept.	\$2450 \$2500		
Apr.	\$2300 \$2300	Oct.	\$2000 \$2000		
May	\$1650	Nov.	\$2350		
June	\$2700	Dec.	\$2400		
146) Wha	nt was the family's	total income fro	m January thru Jı	ıne?	
A	\$13,000	B) \$11	,000	C) \$12,150	D) \$9,200
Ans	wer: C				
147) Wha	nt was the family's	total income for	the year?		
A	\$23,750	B) \$25	5,150	C) \$22,000	D) \$24,000
Ans	wer: B				
148) If th	e family paid $\frac{13}{100}$	of their total inc	ome in taxes for t	he year, how much was	paid in taxes?
A) \$3848	B) \$35	10	C) \$2730	D) \$3269.50
Ans	wer: D				
149) If $\frac{9}{10}$	$\frac{0}{00}$ of the family's t	otal income was	spent on clothing	, how much was spent f	or clothing last year?
A) \$2430	B) \$26	10	C) \$2160	D) \$2263.50
Ans	wer: D				
150) The	family saved $\frac{13}{100}$	of their total inc	ome each month.	How much savings did	they have at the end of June
A) \$1196	B) \$16	90	C) \$1508	D) \$1579.50
Ans	wer: D				
151) The	family saved $\frac{11}{100}$	of their total inc	ome each month.	How much savings did	they have at the end of the
year	?				
A) \$2970	B) \$23	10	C) \$3256	D) \$2766.50
Ans	wer: D				
	_	of their income fo	or food purchases	. How much did they sp	end on food purchases fo

152) The family used $\frac{7}{100}$ of their income for food purchases. How much did they spend on food purchases for the year?

A) \$1470

B) \$1760.50

C) \$2072

D) \$1890

Answer: B

153) The family used $\frac{17}{100}$ of their income on rent payments. How much did they spend on rent for the year?

A) \$4275.50

B) \$3570

C) \$5032

D) \$4590

154) If $\frac{1}{5}$ of the family income is spent on entertainment, how much did they spend for entertainment last year?

A) \$4200

B) \$5030

C) \$5400

D) \$5920

Answer: B

155) Other expenses account for $\frac{17}{100}$ of the family income. How much was spent last year on other expenses?

A) \$3570

B) \$3400

- C) \$4275.50
- D) \$4692

Answer: C

Find the reciprocal.

156)
$$\frac{6}{13}$$

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

B) 13

C) $\frac{6}{13}$

D) $\frac{13}{6}$

Answer: D

157)
$$\frac{1}{16}$$

- A) No reciprocal
- B) $\frac{1}{16}$

C) 16

D) 1

Answer: C

158) 9

A) 1

B) 9

- C) No reciprocal
- D) $\frac{1}{9}$

Answer: D

159) $\frac{14}{15}$

A) $\frac{1}{15}$

B) 15

C) $\frac{15}{14}$

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

Answer: C

Divide. Write the answer in lowest terms and as a whole or mixed number where possible.

 $160)\,\frac{5}{4} \div \frac{2}{5}$

A) $\frac{1}{20}$

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

C) 10

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

Answer: D

161) $\frac{1}{2} \div \frac{4}{5}$

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

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

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

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

Answer: B

162)
$$\frac{1}{6} \div \frac{5}{6}$$
A) $\frac{5}{6}$

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

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

Answer: D

163)
$$\frac{1}{7} \div \frac{1}{2}$$
A) $3\frac{1}{2}$

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

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

Answer: B

164)
$$\frac{3}{5} \div \frac{5}{6}$$

A) 2

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

C) $\frac{18}{25}$

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

Answer: C

165)
$$\frac{5}{8} \div \frac{9}{4}$$

A) $3\frac{3}{5}$

B) $\frac{5}{18}$

C) $1\frac{13}{32}$

D) $\frac{32}{45}$

Answer: B

166)
$$\frac{4}{3} \div \frac{1}{3}$$

A) $\frac{4}{9}$

B) $2\frac{1}{4}$

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

D) 4

Answer: D

$$167) \, \frac{5}{11} \div \frac{35}{44}$$

A) $2\frac{6}{7}$

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

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

D) $\frac{175}{484}$

Answer: B

A) $6\frac{2}{9}$

B) $\frac{8}{17}$

C) $\frac{7}{72}$

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

A) $\frac{150}{1183}$

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

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

D) $\frac{6}{7}$

Answer: C

170) $28 \div \frac{4}{3}$

A) 7

B) $\frac{1}{21}$

C) 21

D) $37\frac{1}{3}$

Answer: C

171) $24 \div \frac{1}{7}$

A) $\frac{1}{168}$

B) 168

C) $3\frac{3}{7}$

D) 24

Answer: B

172) $35 \div \frac{5}{7}$

A) $\frac{1}{49}$

B) 49

C) 7

D) 25

Answer: B

173) $4 \div \frac{3}{8}$

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

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

C) $\frac{3}{32}$

D) $10\frac{2}{3}$

Answer: D

174) $\frac{7}{4} \div 2$

A) $\frac{7}{8}$

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

C) $3\frac{1}{2}$

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

Answer: A

175) $\frac{5}{11} \div 1$

A) $2\frac{1}{5}$

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

C) $\frac{11}{5}$

D) $\frac{5}{11}$

Answer: D

176) $\frac{35}{3} \div 5$

A) 7

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

C) $58\frac{1}{3}$

D) $2\frac{1}{3}$

Answer: D

177)

A) 18

B) $\frac{1}{30}$

C) 30

D) $10\frac{4}{5}$

Answer: C

178)

A) 8

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

C) $18\frac{2}{7}$

D) 56

Answer: D

179)

A) 6

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

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

Answer: B

Solve the problem.

180) A land developer wants to develop 8 acres of land. Each lot in the development is to be $\frac{2}{7}$ of an acre. How many lots will the land developer have in the 8 acres?

A) $2\frac{2}{7}$ lot(s)

B) 28 lots

C) $1\frac{3}{4}$ lots

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

Answer: B

181) A box of cereal contains about 12 cups. A serving size is $\frac{3}{4}$ cup. About how many servings are in the box of cereal?

A) 16 servings

B) 9 servings

C) $5\frac{1}{3}$ servings D) $3\frac{3}{4}$ servings

182)	A bag of chips weighs 24 ounc	es. A serving size is $\frac{3}{4}$ ounce.	How many servings are in the	ne bag of chips?
	A) $6\frac{3}{4}$ servings	B) 32 servings	C) 18 servings	D) $9\frac{1}{3}$ servings
	Answer: B			
183)	A bottle of ketchup has a net v	veight of 22 ounces. A serving	g size is $\frac{1}{2}$ ounce. How many	servings are in the
	bottle of ketchup?			
	A) $22\frac{1}{2}$ servings	B) 44 servings	C) 24 servings	D) 11 servings
	Answer: B			
184)	A child's dose of medicine is $\frac{1}{6}$	of a pre-measured dose cup	o. If the bottle of medicine is the	he size of 6 dose cups,
	how many children's doses are	e there in the bottle?		
	A) $6\frac{1}{6}$ doses	B) 1 dose(s)	C) 36 doses	D) 12 doses
	Answer: C			
185)	A technician has readings that	take $\frac{2}{3}$ minute each to read a	and record. How many readir	ngs can be completed in
	54 minutes? A) 18 readings Answer: C	B) 20 readings	C) 81 readings	D) 36 readings
186)	The floor of a rectangular room	n is to be tiled with $\frac{1}{2}$ -foot so	uare tiles along a 10-foot wa	ll. How many tiles will
	be needed along the wall?	3		
	A) 31 tiles	B) $10\frac{1}{3}$ tiles	C) 30 tiles	D) $3\frac{1}{3}$ tiles
	Answer: C			
187)	A piece of cheese weighing $\frac{2}{5}$ portion?	pound is to be divided into 6	equal portions. What will be	the weight of each
	A) $\frac{1}{15}$ pound	B) $2\frac{2}{5}$ pound(s)	C) 15 pounds	D) $\frac{3}{5}$ pound(s)
	Answer: A			
188)	A piece of cable which is $\frac{3}{4}$ m	long is to be cut into pieces $\frac{1}{8}$	- m long. How many pieces w	vill there be?
	A) 6 pieces	B) $\frac{1}{6}$ piece	C) 32 pieces	D) 24 pieces
	Answer: A			

100\		1 11 6 4	1. 1. 7. 1.1	1 20 1	
189)	The recipe for a chocolate chip	3	ocolate chips. If a bakery war	its to make 20 cakes,	
	how many pounds of chocolat A) 4 pounds	te chips will they need? B) 16 pounds	C) 5 pounds	D) 20 pounds	
	Answer: B	-) F	5) v _F v s s s s	_, r	
190)	An upholsterer wants to reupl	nolster 280 chairs for a banqu	et hall. If each chair needs $\frac{1}{7}$	pound of brass tacks,	
	how many pounds of brass tac A) 40 pounds	cks are needed? B) 1960 pounds	C) 196 pounds	D) 4 pounds	
	Answer: A				
191)	A mechanic uses on average $\frac{3}{2}$	$\frac{3}{2}$ gallon(s) of gear lube to serv	vice each tractor differential. l	Find the number of	
	tractors that can be serviced w	-		D) 27.	
	A) 12 tractors Answer: A	B) 54 tractors	C) 6 tractors	D) 27 tractors	
		2			
192)	A building contractor finds that $\frac{2}{5}$ can of pipe joint compound is needed to plumb each new home. How many				
	homes can be plumbed with 2	4 cans of compound?	_		
	A) 24 homes	B) 30 homes	C) $9\frac{3}{5}$ homes	D) 60 homes	
	Answer: D				
193)	Joe has traveled $\frac{4}{5}$ of his total	trip. If the trip is a total of 640) miles, how many miles has l	ne gone?	
	A) 256 miles	B) 128 miles	C) $102\frac{2}{5}$ miles	D) 512 miles	
	Answer: D				
194)	Susan has been working on a	ob that will require 45 hours	to complete. If she has compl	eted $\frac{8}{9}$ of the job, how	
	many hours has she worked?				
	A) $4\frac{4}{9}$ hours	B) 40 hours	C) 5 hours	D) 20 hours	
	Answer: B				
195)	A scarf manufacturer requires	$\frac{3}{5}$ yard of fabric for each sca	rf produced. Find the number	of scarves that can be	
	made from 867 yards of fabric A) 1445 scarves	B) 2168 scarves	C) 347 scarves	D) 520 scarves	
	Answer: A				

196) Each patient will receive $\frac{9}{10}$ vial of medication. How many patients can be treated with 5850 vials of

medication?

A) 5265 patients

B) 650 patients

C) 6500 patients

D) 9530 patients

Answer: C

Multiply to find the exact answer. Express the answer as a whole or mixed number when possible and simplify.

197) $2\frac{4}{7} \cdot 23\frac{1}{3}$

A) 61

B) 60

C) 51

D) $46\frac{4}{21}$

Answer: B

198) $6\frac{2}{3} \cdot 2\frac{1}{4}$

A) 15

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

C) 17

D) 16

Answer: A

199) $2\frac{1}{3} \cdot 3\frac{6}{7}$

A) 9

B) 6

C) 4

D) 8

Answer: A

200) $2\frac{7}{8} \cdot 8$

A) 23

B) 16

C) 128

D) $10\frac{7}{8}$

Answer: A

201) $2 \cdot 4 \frac{3}{16}$

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

B) $6\frac{3}{8}$

C) $8\frac{3}{16}$

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

Answer: D

202) $3 \cdot 3 \frac{14}{15}$

A) 9

B) $9\frac{14}{15}$

C) $10\frac{4}{5}$

D) $11\frac{4}{5}$

Answer: D

203) $1\frac{4}{9} \cdot \frac{3}{5}$

A) $\frac{13}{15}$

B) $1\frac{12}{45}$

C) $\frac{11}{15}$

D) $4\frac{13}{15}$

204)
$$1\frac{1}{4} \cdot \frac{1}{7} \cdot \frac{4}{5}$$

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

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

C)
$$\frac{1}{35}$$

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

Answer: D

205)
$$5 \cdot 5\frac{1}{5} \cdot \frac{1}{7}$$

A)
$$2\frac{5}{7}$$

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

C)
$$3\frac{5}{7}$$

D)
$$5\frac{3}{7}$$

Answer: C

206)
$$5\frac{1}{8} \cdot 4 \cdot \frac{4}{5}$$

A)
$$20\frac{5}{32}$$

B)
$$20\frac{2}{5}$$

C)
$$9\frac{2}{5}$$

D)
$$16\frac{2}{5}$$

Answer: D

Divide to find the exact answer. Express the answer as a whole or mixed number when possible and simplify.

207)
$$2\frac{6}{7} \div 1\frac{6}{7}$$

A)
$$1\frac{7}{13}$$

B)
$$1\frac{7}{12}$$

C)
$$1\frac{8}{13}$$

D)
$$2\frac{7}{13}$$

Answer: A

208)
$$5\frac{5}{7} \div 1\frac{4}{7}$$

A)
$$3\frac{8}{11}$$

B)
$$4\frac{7}{11}$$

C)
$$3\frac{7}{10}$$

D)
$$3\frac{7}{11}$$

Answer: D

209)
$$5\frac{3}{7} \div 3\frac{3}{5}$$

A)
$$1\frac{32}{62}$$

B)
$$1\frac{32}{63}$$

C)
$$1\frac{33}{63}$$

D)
$$2\frac{32}{63}$$

Answer: B

210)
$$3\frac{1}{8} \div 1\frac{2}{7}$$

A)
$$2\frac{31}{71}$$

B)
$$2\frac{32}{72}$$

C)
$$3\frac{31}{72}$$

D)
$$2\frac{31}{72}$$

Answer: D

211) $20 \div 3\frac{1}{3}$

A) 7

B) 5

C) $4\frac{1}{2}$

D) 6

Answer: D

212) $2\frac{2}{7} \div 8$

A) $\frac{2}{6}$

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

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

D) $\frac{3}{7}$

Answer: C

213) $2\frac{4}{5} \div \frac{1}{5}$

A) 15

B) $12\frac{1}{2}$

C) 13

D) 14

Answer: D

Refer to the following recipe to first estimate the answer and then use multiplication or division to find the exact answer. Simplify.

Old Grandma's Fork Cookies

 $1\frac{1}{2}$ cups brown sugar

 $1\frac{1}{2}$ cups white sugar

 $1\frac{1}{4}$ cups shortening

1 pinch salt

3 eggs

 $2\frac{1}{2}$ tsp soda

 $2\frac{1}{4}$ tsp cream of tartar

 $1\frac{1}{2}$ tsp vanilla

Cream sugars and shortening. Beat in remaining ingredients. Add flour to stiffen like regular cookie dough. Roll into balls, then flatten with a fork. Cook until brown.

214) If the recipe is tripled, how much soda will be needed?

A) Estimate: 6 tsp Exact: $6\frac{3}{4}$ tsp

B) Estimate: 9 tbsp

Exact: $7\frac{1}{2}$ tbsp

C) Estimate: 9 tsp

Exact: $7\frac{1}{2}$ tsp

D) Estimate: $7\frac{1}{2}$ tsp

Exact: 9 tsp

- 215) Find the amount of vanilla needed if the recipe is halved.
 - A) Estimate: $\frac{1}{2}$ tsp

Exact: $1\frac{1}{2}$ tsp

- B) Estimate: 2 tsp Exact: 3 tsp
- C) Estimate: 1 tsp Exact: $\frac{3}{4}$ tsp
- D) Estimate: $\frac{3}{4}$ tsp

Exact: 1 tsp

Answer: C

- 216) Find the amount of white sugar needed if you take $2\frac{1}{2}$ times the recipe.
 - A) Estimate: $3\frac{3}{4}$ cups

Exact: 5 cups

- B) Estimate: 3 cups Exact: 3 cups
- C) Estimate: 6 cups Exact: $3\frac{3}{4}$ cups
- D) Estimate: 4 cups Exact: $3\frac{3}{4}$ cups

Answer: C

- 217) Find the amount of cream of tartar needed if you take $1\frac{1}{2}$ times the recipe.
 - A) Estimate: $3\frac{3}{4}$ tsp Exact: 6 tsp
- B) Estimate: 4 tsp C) Estimate: 6 tsp Exact: $3\frac{3}{8}$ tsp Exact: $3\frac{3}{8}$ tsp
- D) Estimate: 4 tsp Exact: $3\frac{3}{4}$ tsp

Answer: B

Solve the problem.

- 218) A small company sells stock for $8\frac{1}{4}$ dollars per share. How much will 200 shares cost?
 - A) 200 dollars
- B) 1650 dollars
- C) $24\frac{8}{33}$ dollars
- D) 202 dollars

Answer: B

- 219) Tim needs to apply $2\frac{1}{2}$ gallons of herbicide per acre of soybeans. How many gallons of herbicide are needed for 388 acres?
 - A) 196 gallons
- B) 970 gallons
- C) $155\frac{1}{5}$ gallons D) $194\frac{1}{2}$ gallons

Answer: B

- 220) On a certain map, 1 inch equals 32 miles. How many miles are in $5\frac{1}{4}$ inches?
 - A) $6\frac{2}{21}$ miles
- B) 41 miles
- C) $40\frac{1}{4}$ miles
- D) 168 miles

Answer: D

221) A worker has readings that take $1\frac{1}{3}$ minutes each to read and record. How many readings can be completed in

60 minutes?

- A) 7 readings
- B) 45 readings
- C) 80 readings
- D) 21 readings

Answer: B

be needed along the wall	?		
A) $31\frac{7}{8}$ tiles	B) 35 tiles	C) $3\frac{13}{24}$ tiles	D) $30\frac{5}{8}$ tiles
Answer: A			
223) Stock in a company is sel	ling for $$3\frac{1}{4}$ per share. If some$	neone purchased \$1274 wor	th of stock in this company,
how many shares did the	y get?		
A) 10,192 shares	B) 1274 shares	C) $90\frac{5}{8}$ shares	D) 392 shares
Answer: D			
224) It requires $1\frac{2}{3}$ cups of con		to make a certain juice. How	many cups are needed to
make $9\frac{2}{3}$ quarts of juice?			
A) $5\frac{4}{5}$ cups	B) 145 cups	C) $16\frac{1}{9}$ cups	D) $48\frac{1}{3}$ cups
Answer: C			
225) A car traveled 309 miles of	on $10\frac{3}{10}$ gallons of gas. How	many miles per gallon did i	t get?
A) 31 mpg	B) $30\frac{4}{5}$	C) $30\frac{9}{10}$ mpg	D) 30 mpg
Answer: D			
ide an appropriate response.		0	
226) When the numerator is the	ne same as the denominator,	for example $\frac{8}{8}$, the fraction i	is called a(n) fraction
A) proper	B) uncommon	C) improper	D) whole
Answer: C			
227) A proper fraction has the	form $\frac{x}{21}$. What is the larges	possible number that x can	be?
A) 21	B) 22	C) 10.5	D) 20
Answer: D			

C) Multiply 8 and 5.

D) Divide 8 by 13.

B) Multiply 13 and 5.

A) Add 5 and 8.

Answer: B

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229) You are asked to change $\frac{25}{24}$	to a mixed number. W	hat should be your first step?	
A) Divide 25 by 24. C) Add 25 and 24.		B) Multiply 25 and 24. D) Divide 24 by 25.	
Answer: A			
230) A prime number has exactly	y factor(s).		
A) 1	B) 3	C) 0	D) 2
Answer: D			
231) The only consecutive whole	e numbers that are both	prime numbers are and	
A) 0 and 1	B) 6 and 7	C) 1 and 2	– D) 2 and 3
Answer: D	,	,	,
232) One way to determine if tw	o fractions are equivale	nt is to use .	
A) simplification	1	B) equivalent terms	
C) the method of prime f	actors	D) common factors	
Answer: C			
233) Multiply two fractions by	the numerators	and the denominators.	
A) adding; multiplying		B) multiplying; cancel	ing
C) multiplying; multiply	ing	D) multiplying; adding	g
Answer: C			
234) Fill in the blank with "alway	ys greater than," "somet	imes greater than," "always less t	than," or "cannot be
determined," whichever res	ponse is correct. When	dividing a positive fraction by $\frac{3}{8}$, the answer is the
fraction.			
A) always greater than		B) sometimes greater t	than
C) cannot be determined		D) always less than	
Answer: A			
235) Finish the statement with a	-		
A) Add the numerators a			ultimly, the edomenation atoms
C) Add the numerators a		sor), add the numerators and mu	anipry the denominators.
D) Use the reciprocal of t			
Answer: D	Joedin Lucion (alvi	,	
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