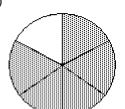
Full Download: https://alibabadownload.com/product/basic-college-mathematics-10th-edition-lial-test-bank/

Exam

Name

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.



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

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

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

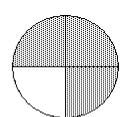
1) \_\_\_\_\_

2)

3) \_\_\_\_\_

Answer: A

2)



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

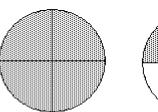
B)  $\frac{7}{8}$ ,  $\frac{1}{8}$ 

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

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

Answer: D

3)



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

Answer: B

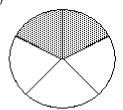
B)  $\frac{5}{4}$ ,  $\frac{3}{4}$ 

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

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

1

4)



- A)  $\frac{2}{3}$ ,  $\frac{1}{3}$
- B)  $\frac{3}{2}$ ,  $\frac{1}{2}$
- C)  $\frac{2}{5}$ ,  $\frac{3}{5}$  D)  $\frac{5}{2}$ ,  $\frac{5}{3}$

4) \_\_\_\_\_

5) \_\_\_\_\_

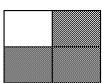
6) \_\_\_\_\_

7) \_\_\_\_\_

8) \_\_\_\_\_

Answer: C

5)



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

Answer: D

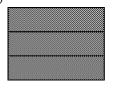
6)



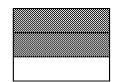
- A)  $\frac{3}{5}$ ,  $\frac{2}{5}$
- B)  $\frac{5}{8}$ ,  $\frac{3}{8}$
- C)  $\frac{5}{3}$ ,  $\frac{5}{2}$
- D)  $\frac{3}{8}$ ,  $\frac{5}{8}$

Answer: D

7)



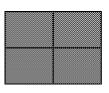
A)  $\frac{5}{6}$ ,  $\frac{1}{6}$ 



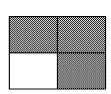
- B)  $\frac{1}{5}$ ,  $\frac{1}{1}$
- C)  $\frac{5}{3}$ ,  $\frac{1}{3}$
- D)  $\frac{5}{1}$ ,  $\frac{1}{1}$

Answer: C

8)



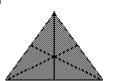
A)  $\frac{7}{8}$ ,  $\frac{1}{8}$ 



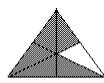
- B)  $\frac{7}{1}$ ,  $\frac{1}{4}$
- C)  $\frac{1}{7}$ ,  $\frac{4}{1}$
- D)  $\frac{7}{4}$ ,  $\frac{1}{4}$

Answer: D

9)



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



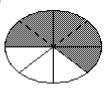
B)  $\frac{1}{11}$ ,  $\frac{12}{1}$ 

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

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

Answer: D

10)



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



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

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

Answer: A

Solve the problem.

11) Of 11 crates of apples, 4 crates are Granny Smiths. What fraction of the crates are Granny Smiths?

11) \_\_\_\_\_

9) \_\_\_\_

10) \_\_\_\_

A) 
$$\frac{7}{11}$$

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

C) 
$$\frac{11}{7}$$

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

Answer: D

12) Of 11 crates of apples, 10 crates are Granny Smiths. What fraction of the crates are not Granny Smiths?

12) \_\_\_\_\_

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

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

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

D) 
$$\frac{11}{10}$$

Answer: C

13) A high school basketball team has 10 members. If 7 of the team members are juniors, find the fraction of the team members that are juniors.

13) \_\_\_\_\_

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

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

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

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

Answer: C

14) A high school basketball team has 9 members. If 5 of the team members are juniors and the rest are seniors, find the fraction of the team members that are seniors.

14) \_\_\_\_\_

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

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

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

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

Answer: A

15) In a microbiology class of 31 students, 9 students are graduate students. What fraction of the students are graduate students?

15) \_\_\_\_\_

A) 
$$\frac{22}{31}$$

B) 
$$\frac{31}{22}$$

C) 
$$\frac{9}{31}$$

D) 
$$\frac{31}{9}$$

Answer: C

16	5) In a microbiology class of 4		e graduate students. What	fraction of the	16)
	students are not graduate s $A) \frac{41}{24}$	B) $\frac{24}{41}$	C) $\frac{17}{41}$	D) $\frac{41}{17}$	
	Answer: B				
17	7) Of 114 bicycles in a bike ra bikes?	ck, 61 are mountain bikes	. What fraction of the bicy	cles are mountain	17)
	A) $\frac{53}{114}$	B) $\frac{114}{61}$	C) $\frac{61}{114}$	D) $\frac{114}{53}$	
	Answer: C				
18	3) Of 80 bicycles in a bike rac bikes?	k, 37 are mountain bikes.	What fraction of the bicycl	les are not mountain	18)
	A) $\frac{80}{43}$	B) $\frac{80}{37}$	C) $\frac{37}{80}$	D) $\frac{43}{80}$	
	Answer: D				
19	O) Of 210 trees in the park, 59				19)
	A) $\frac{151}{210}$	B) $\frac{210}{59}$	C) $\frac{210}{151}$	D) $\frac{59}{210}$	
	Answer: D				
20	)) Of 180 trees in the park, 41		at fraction of the trees are n	not coniferous trees?	20)
	A) $\frac{180}{41}$	B) $\frac{139}{180}$	C) $\frac{41}{180}$	D) $\frac{180}{139}$	
	Answer: B				
Identify	the numerator and denomin	nator.			
21	$(\frac{5}{3})$				21)
	A) Numerator 5	B) Numerator $\frac{3}{5}$	C) Numerator 3	D) Numerator 8	
	Denominator 3	Denominator 5	Denominator 5	Denominator 1	
	Answer: A				
22	$(2)\frac{13}{23}$				22)
	A) Numerator 23		B) Numerator 1		
	Denominator 13		Denominator $\frac{23}{13}$		
	C) Numerator $\frac{13}{23}$		D) Numerator 13		
	Denominator 1		Denominator 23		

Answer: D

List the proper fractions in the group.

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

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

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

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

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

Answer: B

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

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

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

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

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

Answer: C

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

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

A) 
$$\frac{14}{13}$$
,  $\frac{7}{2}$ ,  $\frac{11}{4}$  B)  $\frac{7}{12}$ ,  $\frac{11}{4}$ ,  $\frac{3}{4}$  C)  $\frac{7}{2}$ ,  $\frac{11}{4}$ ,  $\frac{3}{4}$  D)  $\frac{7}{12}$ ,  $\frac{3}{4}$ 

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

Answer: D

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

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

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

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

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

Answer: D

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

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

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

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

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

Answer: D

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

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

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

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

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

List the improper fractions in the group.

$$(29)\frac{16}{3}, \frac{9}{38}, \frac{5}{8}, \frac{55}{39}, \frac{63}{63}$$

- A)  $\frac{9}{38}$ ,  $\frac{5}{8}$
- C)  $\frac{16}{3}$ ,  $\frac{9}{38}$ ,  $\frac{5}{8}$ ,  $\frac{63}{63}$

Answer: D

$$30)\frac{36}{8}, \frac{4}{51}, \frac{4}{9}, \frac{61}{56}, \frac{58}{58}$$

- A)  $\frac{36}{8}$ ,  $\frac{61}{56}$ ,  $\frac{58}{58}$
- C)  $\frac{36}{8}$ ,  $\frac{4}{51}$ ,  $\frac{4}{9}$ ,  $\frac{58}{58}$

Answer: A

$$31)\frac{48}{4}, \frac{7}{49}, \frac{4}{8}, \frac{59}{36}, \frac{43}{43}$$

- A)  $\frac{7}{49}$ ,  $\frac{4}{8}$
- C)  $\frac{48}{4}$ ,  $\frac{7}{49}$ ,  $\frac{4}{8}$ ,  $\frac{43}{43}$

Answer: B

$$32)\frac{33}{3}, \frac{3}{29}, \frac{2}{6}, \frac{59}{50}, \frac{55}{55}$$

- A)  $\frac{33}{3}$ ,  $\frac{3}{29}$ ,  $\frac{2}{6}$ ,  $\frac{55}{55}$
- C)  $\frac{33}{3}$ ,  $\frac{59}{50}$ ,  $\frac{55}{55}$

Answer: C

$$33)\frac{62}{7}, \frac{3}{32}, \frac{4}{5}, \frac{62}{52}, \frac{27}{27}$$

- A)  $\frac{3}{32}$ ,  $\frac{4}{5}$
- C)  $\frac{62}{7}$ ,  $\frac{3}{32}$ ,  $\frac{4}{5}$ ,  $\frac{27}{27}$

Answer: B

B) 
$$\frac{16}{3}$$
,  $\frac{9}{38}$ ,  $\frac{5}{8}$ ,  $\frac{55}{39}$ ,  $\frac{63}{63}$ 

D) 
$$\frac{16}{3}$$
,  $\frac{55}{39}$ ,  $\frac{63}{63}$ 

29) \_\_\_\_\_

33) \_\_\_\_\_

- B)  $\frac{36}{8}$ ,  $\frac{4}{51}$ ,  $\frac{4}{9}$ ,  $\frac{61}{56}$ ,  $\frac{58}{58}$
- D)  $\frac{4}{51}$ ,  $\frac{4}{9}$

- B)  $\frac{48}{4}$ ,  $\frac{59}{36}$ ,  $\frac{43}{43}$
- D)  $\frac{48}{4}$ ,  $\frac{7}{49}$ ,  $\frac{4}{8}$ ,  $\frac{59}{36}$ ,  $\frac{43}{43}$

- B)  $\frac{3}{29}$ ,  $\frac{2}{6}$
- D)  $\frac{33}{3}$ ,  $\frac{3}{29}$ ,  $\frac{2}{6}$ ,  $\frac{59}{50}$ ,  $\frac{55}{55}$

B) 
$$\frac{62}{7}$$
,  $\frac{62}{52}$ ,  $\frac{27}{27}$ 

D) 
$$\frac{62}{7}$$
,  $\frac{3}{32}$ ,  $\frac{4}{5}$ ,  $\frac{62}{52}$ ,  $\frac{27}{27}$ 

$$34)\frac{28}{7}, \frac{7}{21}, \frac{2}{4}, \frac{45}{31}, \frac{46}{46}$$

- A)  $\frac{7}{21}$ ,  $\frac{2}{4}$
- C)  $\frac{28}{7}$ ,  $\frac{45}{31}$ ,  $\frac{46}{46}$

- B)  $\frac{28}{7}$ ,  $\frac{7}{21}$ ,  $\frac{2}{4}$ ,  $\frac{46}{46}$
- D)  $\frac{28}{7}$ ,  $\frac{7}{21}$ ,  $\frac{2}{4}$ ,  $\frac{45}{31}$ ,  $\frac{46}{46}$

Answer: C

Fill in the blanks to complete the sentence.

- 35) The fraction  $\frac{19}{32}$  represents \_\_\_\_ of the \_\_\_\_ equal parts into which a whole is divided.
- 35) \_\_\_\_\_

34) \_\_\_\_\_

- A) 32, 19
- B)  $\frac{19}{32}$ , 32
- C)  $\frac{19}{32}$ , 19
- D) 19, 32

Answer: D

Write the mixed number as an improper fraction.

- $36) 4\frac{5}{7}$  36)
  - A)  $\frac{33}{5}$

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

- C)  $\frac{28}{5}$
- D)  $\frac{28}{7}$

Answer: B

- $37) 5\frac{3}{4}$  37) \_\_\_\_\_
  - A)  $\frac{20}{3}$

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

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

D)  $\frac{20}{4}$ 

Answer: C

- $38) 9\frac{2}{5}$  38) \_\_\_\_\_
  - A)  $\frac{45}{2}$

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

- C)  $\frac{45}{5}$
- D)  $\frac{47}{2}$

Answer: B

- 39)  $7\frac{2}{5}$ 
  - A)  $\frac{35}{2}$

B)  $\frac{37}{5}$ 

- C)  $\frac{35}{5}$
- D)  $\frac{37}{2}$

Answer: B

- 40)  $15\frac{7}{10}$ 
  - A)  $\frac{167}{10}$
- B)  $\frac{157}{10}$
- C)  $\frac{22}{10}$

D)  $\frac{105}{10}$ 

Answer: B

41)  $10\frac{3}{4}$ 

41) \_\_\_\_\_

A) 22

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

C)  $\frac{15}{2}$ 

D) 120

Answer: B

Write the improper fraction as a whole or mixed number.

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

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

B)  $15\frac{2}{3}$ 

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

D)  $14\frac{2}{3}$ 

Answer: D

 $43)\frac{38}{4}$ 

A)  $10\frac{1}{2}$ 

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

C)  $9\frac{1}{7}$ 

D)  $8\frac{1}{2}$ 

Answer: B

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

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

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

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

D)  $8\frac{4}{7}$ 

Answer: B

 $45)\frac{43}{6}$  45) \_\_\_\_\_

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

B)  $8\frac{1}{6}$ 

C)  $7\frac{1}{6}$ 

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

Answer: C

 $46)\frac{18}{8}$  46) \_\_\_\_\_

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

B)  $1\frac{2}{8}$ 

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

D)  $2\frac{2}{8}$ 

Answer: D

 $47)\frac{56}{7}$  47) \_\_\_\_\_

A) 55

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

C) 57

D) 8

Answer: D

48)  $\frac{186}{11}$ 48) B)  $186\frac{186}{11}$ C)  $186\frac{11}{186}$ D)  $\frac{11}{186}$ A)  $16\frac{10}{11}$ Answer: A 49)  $\frac{1133}{14}$ 49) \_\_\_\_\_ C) 1133 14 1133 D) 1133 1133 14 B)  $\frac{14}{1133}$ A)  $80\frac{13}{14}$ Answer: A 50)  $\frac{2170}{14}$ 50) \_\_\_\_\_ C)  $\frac{155}{2}$ A) 155 B) 2171 D) 2169 Answer: A Find all the factors for the number. 51) 30 51) \_\_\_\_\_ A) 1, 5, 6, 30 B) 1, 2, 3, 5, 6, 10, 20, 30 C) 5, 6, 10, 30 D) 1, 2, 3, 5, 6, 10, 15, 30 Answer: D 52) 28 52) A) 2, 7, 14, 28 B) 1, 2, 4, 7, 14, 28 C) 1, 2, 7, 14, 28 D) 1, 2, 4, 7, 8, 14, 28 Answer: B 53) 36 53) \_\_\_\_\_ A) 1, 2, 3, 4, 6, 9, 12, 18, 36 B) 1, 2, 3, 4, 5, 6, 9, 10, 12, 18, 36 D) 1, 2, 4, 6, 12, 18, 36 C) 2, 4, 6, 12, 18, 36 Answer: A 54) 54) 45 A) 1, 3, 5, 15, 45 B) 1, 3, 5, 9, 15, 30, 45 C) 1, 3, 5, 9, 15, 45 D) 1, 2, 3, 5, 9, 15, 30, 45 Answer: C 55) 56 55) A) 1, 2, 3, 4, 7, 8, 14, 18, 28, 56 B) 2, 4, 7, 8, 14, 28 C) 1, 2, 4, 7, 8, 14, 28, 56 D) 1, 2, 4, 7, 8, 14, 18, 28, 56 Answer: C 56) 63 56) \_\_\_\_\_

B) 1, 3, 5, 7, 9, 11, 21, 63

D) 3, 5, 7, 9, 11, 21, 63

A) 1, 3, 7, 9, 21, 63

Answer: A

C) 1, 2, 3, 7, 9, 21, 36, 63

57) 66					57)
	A) 1, 2, 3, 4, 11, 16, 22, 33, 66 C) 1, 2, 3, 6, 11, 22, 33, 66		B) 1, 3, 11, 22, 33, 66 D) 1, 2, 3, 9, 11, 22, 33, 66		,
An	swer: C				
58) 70					58)
	A) 1, 2, 3, 5, 7, 9, 15, 35, 70 C) 1, 2, 5, 7, 10, 14, 35, 70		B) 1, 2, 5, 7, 35, 70	70	
	swer: C		D) 1, 3, 5, 7, 9, 15, 20, 35, 7	70	
	ower. C				
59) 72	A) 1, 2, 3, 4, 6, 9, 12, 14, 18, 2	24 26 72	B) 1, 2, 3, 4, 6, 8, 9, 12, 18,	24 26 72	59)
	C) 1, 2, 3, 4, 6, 8, 9, 12, 24, 36		D) 1, 2, 3, 4, 5, 6, 7, 8, 9, 12		
An	swer: B				
60) 84					60)
·	A) 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 3 C) 1, 2, 3, 4, 6, 7, 12, 14, 21, 4		B) 1, 2, 3, 4, 6, 7, 12, 14, 23 D) 1, 2, 3, 4, 7, 14, 21, 28, 4		
An	swer: B		,		
Decide wheth	ner the number is prime or	r composite			
61) 42	ier the number is prime of	composite.			61)
I	A) Prime		B) Composite		· <del></del>
An	swer: B				
62) 73					62)
A	A) Prime		B) Composite		
An	swer: A				
63) 54					63)
A	A) Prime		B) Composite		
An	swer: B				
64) 11					64)
A	A) Prime		B) Composite		
An	swer: A				
65) 10					65)
A	A) Prime		B) Composite		·
An	swer: B				
Find the prim	ne factorization of the num	nber. Write the answer v	vith exponents when repo	eated factors appear.	
66) 175			-		66)
A	A) 25 · 7	3) 25 · 5	C) 72	D) 5 <sup>2</sup> · 7	
An	swer: D				
67) 217	,				67)
A	A) 7 · 31	3) 7 <sup>2</sup> · 31	C) 7 · 29	D) 7 <sup>2</sup>	
An	swer: A				

68) 40 A) 2 <sup>3</sup> · 3	B) 2 <sup>2</sup> · 5	C) 2 <sup>2</sup> ·7	D) 2 <sup>3</sup> · 5	68)
Answer: D				
69) 144	4 -2	<b>1</b> -	2 -	69)
A) 2 <sup>3</sup> · 3 <sup>2</sup> Answer: B	B) 24 · 32	C) 2 <sup>4</sup> · 3	D) 2 <sup>3</sup> · 3	
Aliswer, b				
70) 42	2		2	70)
A) 2 · 3 · 7	B) 3 <sup>2</sup> · 2	C) 6 · 7	D) 2 <sup>2</sup> · 7	
Answer: A				
71) 90				71)
A) 2 · 3 · 5	B) 10 · 3 <sup>2</sup>	C) $2^2 \cdot 3^2 \cdot 5$	D) 2 · 3 <sup>2</sup> · 5	
Answer: D				
72) 252				72)
A) 3 <sup>4</sup> · 7	B) 2 <sup>4</sup> · 7	C) $2^2 \cdot 3^2 \cdot 7$	D) $2^3 \cdot 3^2 \cdot 7$	
Answer: C				
73) 2600				73)
A) $2^3 \cdot 5^2 \cdot 13$	B) 2 <sup>4</sup> · 5 · 13	C) 2 <sup>3</sup> · 5 <sup>3</sup> · 13	D) 2 · 5 <sup>4</sup> · 13	/
Answer: A				
74) 2600				74)
A) $2^3 \cdot 5^2 \cdot 11$	B) $2^2 \cdot 5^2 \cdot 13$	C) $2^3 \cdot 5^2 \cdot 13$	D) 2 <sup>3</sup> · 5 · 13	
Answer: C				
75) 3960				<i>7</i> 5)
•	B) $2^3 \cdot 3^2 \cdot 5 \cdot 7$	C) $2^3 \cdot 3^2 \cdot 5 \cdot 11$	D) $2^3 \cdot 3^2 \cdot 11$	
Answer: C				
Determine whether the number i	s divisible by 2 3 4 5 6	7 8 9 and/or 10		
76) 30	-			76)
A) 2, 3, 5	B) 2, 3, 5, 10	C) 2, 3, 5, 6, 10	D) 2, 3, 5, 6	
Answer: C				
77) 3800				77)
A) 2, 4, 5, 8	B) 2, 4, 5	C) 2, 5, 8, 10	D) 2, 5, 4, 8, 10	
Answer: D				
78) 23				78)
A) 3	B) 3, 5	C) 3, 7	D) None	
Answer: D				
79) 209				79)
A) 3, 5	B) None	C) 3	D) 3, 7	

Answer: B

80) 80,401 A) 3 Answer: B	B) None	C) 3, 5	D) 3, 7	80)
81) 7138 A) 2 Answer: A	B) 2, 3, 4	C) 4	D) 3, 4	81)
82) 4602 A) 2, 3, 6 Answer: A	B) 3, 4, 6	C) 4, 5, 6	D) 2, 3, 4	82)
83) 2035 A) 10 Answer: B	B) 5	C) 5, 10	D) 2, 5, 10	83)
84) 9417 A) 2, 3, 9 Answer: D	B) 3, 9	C) 9	D) 3	84)
85) 51,620 A) 2, 5 Answer: B	B) 2, 4, 5, 10	C) 4, 5, 10	D) 4, 5	85)
Write the fraction in lowest terms. $86) \frac{3}{9}$				86)
A) $\frac{1}{9}$ Answer: D	B) $\frac{3}{3}$	C) $\frac{3}{1}$	D) $\frac{1}{3}$	
$87)\frac{8}{28}$	4	2	2	87)
A) $\frac{2}{28}$ Answer: C	B) $\frac{4}{14}$	C) $\frac{2}{7}$	D) $\frac{3}{8}$	
88) $\frac{20}{28}$ A) $\frac{5}{4}$	B) $\frac{20}{28}$	C) $\frac{5}{7}$	D) $\frac{4}{7}$	88)
Answer: C 89) $\frac{105}{135}$		•	•	89)
A) $\frac{7}{9}$	B) $\frac{7}{15}$	C) $\frac{15}{9}$	D) $\frac{105}{135}$	· · · · · · · · · · · · · · · · · · ·

12

90)  $\frac{41}{43}$ 

90)

A)  $\frac{20}{21}$ 

B)  $\frac{41}{43}$ 

C)  $\frac{21}{20}$ 

D)  $\frac{1}{43}$ 

Answer: B

91)  $\frac{70}{90}$ 

91) \_\_\_\_\_

92) \_\_\_\_\_

93) \_\_\_\_

94) \_\_\_\_\_

95) \_\_\_\_\_

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

B)  $\frac{70}{90}$ 

- C)  $\frac{7}{10}$
- D)  $\frac{7}{9}$

Answer: D

92)  $\frac{60}{65}$ 

B)  $\frac{60}{65}$ 

- C)  $\frac{12}{5}$
- D)  $\frac{5}{13}$

Answer: A

A)  $\frac{12}{13}$ 

93)  $\frac{50}{80}$ 

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

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

D)  $\frac{50}{80}$ 

Answer: A

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

94)  $\frac{221}{238}$ 

- B)  $\frac{221}{238}$
- C)  $\frac{13}{14}$

D)  $\frac{13}{17}$ 

Answer: C

A)  $\frac{17}{14}$ 

- 95)  $\frac{476}{17}$ 
  - A)  $\frac{1}{28}$

Answer: D

- B)  $\frac{476}{17}$
- C) 29

D) 28

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)  $\frac{12}{16}$ 

96) \_\_\_\_\_

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

Answer: C

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

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

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

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

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

Answer: A

98)  $\frac{24}{140}$ 

98) \_\_\_\_\_

A) 
$$\frac{2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 7} = \frac{3}{5}$$
 B)  $\frac{2 \cdot 2 \cdot 3}{2 \cdot 5 \cdot 7} = \frac{6}{35}$  C)  $\frac{2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 5 \cdot 7} = \frac{6}{35}$  D)  $\frac{2 \cdot 2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 5 \cdot 7} = \frac{9}{35}$ 

B) 
$$\frac{2 \cdot 2 \cdot 3}{2 \cdot 5 \cdot 7} = \frac{6}{35}$$

C) 
$$\frac{2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 5 \cdot 7} = \frac{6}{35}$$

D) 
$$\frac{2 \cdot 2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 5 \cdot 7} = \frac{9}{35}$$

Answer: C

99)  $\frac{1512}{364}$ 

99) \_\_\_\_\_

A) 
$$\frac{2 \cdot 3 \cdot 3 \cdot 7}{13} = \frac{54}{13}$$

B) 
$$\frac{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 2 \cdot 7 \cdot 13} = \frac{1512}{364}$$

C) 
$$\frac{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 2 \cdot 7 \cdot 13} = \frac{54}{13}$$

D) 
$$\frac{2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 7}{2 \cdot 7 \cdot 13} = \frac{54}{13}$$

Answer: C

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

100) 
$$\frac{6}{9}$$
 and  $\frac{12}{18}$ 

100) \_\_\_\_

A) Equivalent

B) Not equivalent

Answer: A

101)  $\frac{1}{5}$  and  $\frac{2}{25}$ 

101) \_\_\_\_\_

A) Equivalent

B) Not equivalent

102)  $\frac{2}{7}$  and  $\frac{11}{16}$ 

Answer: B

102)

A) Equivalent

B) Not equivalent Answer: B

103)  $\frac{2}{9}$  and  $\frac{24}{108}$ 

103)

A) Equivalent

B) Not equivalent

Answer: A

104)  $\frac{9}{81}$  and  $\frac{8}{72}$ 

104) \_\_\_\_\_

A) Equivalent

Answer: A

B) Not equivalent

105)  $\frac{45}{63}$  and  $\frac{50}{77}$ 

B) Not Equivalent

A) Equivalent Answer: B

Multiply. Write the answer in lowest terms.

 $106) \frac{2}{9} \cdot \frac{1}{2}$ 

106) \_\_\_\_\_

107) \_\_\_\_\_

108)

109) \_\_\_\_\_

110) \_\_\_\_\_

111) \_\_\_\_\_

112) \_\_\_\_\_

105) \_\_\_\_

- A)  $\frac{2}{11}$
- B)  $\frac{3}{11}$

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

D)  $\frac{2}{18}$ 

Answer: C

107)  $\frac{1}{6} \cdot \frac{3}{7}$ 

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

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

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

Answer: A

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

 $108) \frac{1}{9} \cdot \frac{1}{4}$ 

B)  $\frac{1}{36}$ 

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

D) 36

Answer: B

A)  $\frac{2}{13}$ 

- 109)  $\frac{1}{2} \cdot \frac{1}{6}$ 
  - A) 12

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

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

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

Answer: D

- 110)  $\frac{1}{3} \cdot \frac{14}{19}$ 
  - A)  $\frac{14}{3}$

- B)  $\frac{42}{19}$
- C)  $\frac{19}{42}$
- D)  $\frac{14}{57}$

Answer: D

- 111)  $\frac{5}{8} \cdot \frac{4}{7} \cdot \frac{1}{2}$ 
  - A)  $\frac{5}{7}$

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

- C)  $\frac{5}{28}$
- D)  $\frac{35}{64}$

Answer: C

112)  $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{4}$ 

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

A) 1

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

Answer: C

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

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

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

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

B) 6

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

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

113) \_\_\_\_\_

114) \_\_\_\_\_

115) \_\_\_\_\_

116) \_\_\_\_\_

117) \_\_\_\_\_

118) \_\_\_\_\_

119) \_\_\_\_\_

120) \_\_\_\_\_

Answer: A

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

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

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

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

Answer: B

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

115)  $48 \cdot \frac{5}{8}$ 

C) 30

D)  $8\frac{69}{280}$ 

A) 25

Answer: C

116)  $10 \cdot \frac{7}{8}$ 

B) 7

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

D)  $8\frac{3}{4}$ 

Answer: D

A)  $17\frac{1}{2}$ 

117)  $60 \cdot \frac{1}{3}$ 

A)  $\frac{60}{3}$ 

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

C) 2

D) 20

Answer: D

118)  $450 \cdot \frac{2}{5}$ 

A) 400 Answer: D B) 450

C) 160

D) 180

119)  $\frac{4}{5}$  · 225

A)  $56\frac{1}{4}$ 

B) 184

C) 180

D) 225

Answer: C

120)  $\frac{2}{7} \cdot 195$ 

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

C)  $55\frac{5}{7}$ 

D)  $\frac{2}{1365}$ 

Answer: C

A) 390

121)  $20 \cdot \frac{3}{10} \cdot \frac{4}{21}$ 

121) \_\_\_\_

A)  $\frac{4}{35}$ 

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

C) 24

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

Answer: B

122)  $\frac{60}{54} \cdot 270 \cdot \frac{7}{10}$ 

122) \_\_\_\_\_

A)  $212\frac{5}{8}$ 

B) 189

C)  $236\frac{1}{4}$ 

D) 210

Answer: D

Find the area of the rectangle.

123)

123) \_\_\_\_\_

124) \_\_\_\_\_

 $A = \frac{4}{7}$  foot

 $B = \frac{1}{2}$  foot

A)  $\frac{4}{9}$  square foot B)  $\frac{4}{14}$  square foot C)  $\frac{2}{7}$  square foot D)  $\frac{5}{9}$  square foot

Answer: C

124)

 $A = \frac{3}{11}$  in.

B = 11 in.

A)  $\frac{124}{11}$  in.2

Answer: B

B) 3 in.<sup>2</sup>

C)  $\frac{33}{11}$  in.<sup>2</sup> D)  $\frac{14}{11}$  in.<sup>2</sup>

125)

125) \_\_\_\_\_

$$A = \frac{4}{18} \text{ mi}$$

$$B = \frac{16}{13} \text{ mi}$$

A) 
$$\frac{64}{234}$$
 mi<sup>2</sup>

B) 
$$\frac{6}{11}$$
 mi<sup>2</sup>

C) 
$$\frac{20}{31}$$
 mi<sup>2</sup>

D) 
$$\frac{32}{117}$$
 mi<sup>2</sup>

Answer: D

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 22 feet and a width of  $\frac{7}{8}$  foot.

126) \_\_\_\_\_

A) 
$$\frac{7}{16}$$
 ft<sup>2</sup>

B) 
$$38\frac{1}{2}$$
 ft<sup>2</sup>

C) 
$$19\frac{1}{4}$$
 ft<sup>2</sup>

Answer: C

127) Find the area of a rectangular table top having a length of 4 feet and a width of  $\frac{5}{2}$  feet.

127)

C) 
$$3\frac{1}{2}$$
 ft<sup>2</sup>

D) 
$$\frac{1}{10}$$
 ft<sup>2</sup>

Answer: A

128) A rectangular parking lot measures  $\frac{3}{14}$  mile by  $\frac{2}{13}$  mile. Find the area of the parking lot.

128)

A) 
$$\frac{5}{182}$$
 mi<sup>2</sup>

B) 
$$\frac{5}{27}$$
 mi<sup>2</sup>

C) 
$$\frac{3}{91}$$
 mi<sup>2</sup>

D) 
$$\frac{2}{91}$$
 mi<sup>2</sup>

Answer: C

129) Layer Cake A is  $\frac{5}{8}$  yard long and  $\frac{1}{3}$  yard wide. Layer Cake B is  $\frac{5}{8}$  yard long and  $\frac{2}{3}$  yard wide.

129) \_\_\_\_\_

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  $\frac{3}{10}$  mile by  $\frac{2}{9}$  mile. Find the area of the parking lot.

130) \_\_\_\_\_

A) 
$$\frac{1}{15}$$
 mi<sup>2</sup>

B) 
$$\frac{5}{19}$$
 mi<sup>2</sup>

C) 
$$\frac{1}{18}$$
 mi<sup>2</sup>

D) 
$$\frac{2}{45}$$
 mi<sup>2</sup>

131) Find the area of a recta	angular table top having a l	ength of 5 feet and a widt	h of $\frac{11}{4}$ feet.	131)
A) 4 ft <sup>2</sup>	B) $\frac{4}{55}$ ft <sup>2</sup>	C) $13\frac{3}{4}$ ft <sup>2</sup>	D) 8 ft <sup>2</sup>	
Answer: C				
132) A rectangular sheet of	paper measures $\frac{1}{5}$ foot by	$\frac{4}{7}$ foot. Find its area.		132)
A) $\frac{1}{7}$ ft <sup>2</sup>	5	C) $\frac{5}{12}$ ft <sup>2</sup>	D) $\frac{5}{7}$ ft <sup>2</sup>	
Answer: B	33	12	,	
133) A rectangular dog bed	I is $\frac{4}{7}$ yard by $\frac{2}{5}$ yard. Find	its area.		133)
		C) $\frac{8}{35}$ yd <sup>2</sup>	D) $\frac{6}{35}$ yd <sup>2</sup>	
Answer: C	-		50	
134) A warehouse stores 54	10 different inventory items	, of which $\frac{4}{5}$ are perishab	le. How many of the	134)
inventory items are pe A) 438 items	erishable? B) 428 items	C) 270 items	D) 432 items	
Answer: D				
135) Mr. and Mrs. Jones ha	ve a home equity loan of \$1	6,800. They have paid off	$\frac{7}{24}$ of the loan. How	135)
much of the loan have A) \$4200	they paid off? B) \$4900	C) \$5600	D) \$700	
Answer: B				
136) During elections at the	e local union, $\frac{6}{11}$ of the mer	mbers voted. If there are 3	3 members, how many	136)
voted? A) 3 members Answer: B	B) 18 members	C) 12 members	D) 24 members	
	acity of 39 patrons. If the re	estaurant is $\frac{2}{3}$ full, how m	any patrons are at the	137)
restaurant? A) 28 patrons Answer: B	B) 26 patrons	C) 13 patrons	D) 24 patrons	
AHSWEL D				

C) 216 units

138)

D) 24 units

138) Larry can machine 36 units in 9 hours. How many units can he machine in 6 hours?

B) 0 unit(s)

A) 4 units

Answer: D

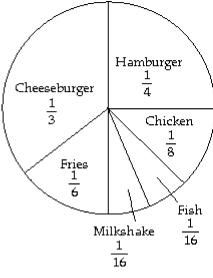
139)	Betsy can ride her bike 24 m	niles in 4 hours. How many	y miles can she ride in 2 h	ours?	139)
	A) 3 mile(s)	B) 6 miles	C) 48 miles	D) 12 miles	
	Answer: D				
,	One fifth of Mary's earned i		1 3	O	140)
	A) $\frac{1}{5}$	B) $\frac{3}{20}$	C) $\frac{4}{15}$	D) $\frac{4}{9}$	
	Answer: B				
	One fifth of Joan's earned ir		e		141)
	are for federal income tax. V tax?	What fraction of Joan's earr	ned income is deducted fo	or federal income	
	A) $\frac{2}{25}$	B) $\frac{3}{50}$	C) $\frac{4}{15}$	D) $\frac{2}{3}$	
	Answer: B				
	One fifth of Joe's earned inc social security (FICA). Wha		e	O	142)
	A) $\frac{2}{15}$	B) $\frac{1}{15}$	C) $\frac{3}{5}$	D) $\frac{1}{4}$	
	Answer: B				
143)	A certain scholarship will p	ay for $\frac{7}{8}$ of a student's total	ıl tuition. How much will	a student who	143)
	receives this scholarship pa	y toward tuition, if tuition	is \$960?		
	A) \$946	B) \$840	C) \$120	D) \$900	

Answer: C

## 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 hamburger and fries were eaten.



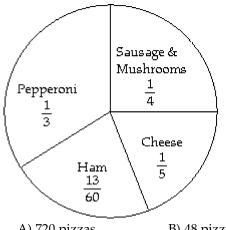


- A) 288 times
- B) 240 times
- C) 180 times
- D) 336 times

Answer: B

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

145) \_\_\_\_



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

Answer: C

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

Month Jan. Feb. Mar. Apr. May June	Earnings \$1400 \$1150 \$2950 \$2300 \$1650 \$2700	Month July Aug. Sept. Oct. Nov. Dec.	Earnings \$1300 \$2450 \$2500 \$2000 \$2350 \$2400			
A	nt was the family's tota ) \$13,000 wer: C	al income from J B) \$9,200	lanuary thru	u June? C) \$12,150	D) \$11,000	146)
147) Wha A	at was the family's total) \$24,000 wer: D	al income for the B) \$23,750	e year?	C) \$22,000	D) \$25,150	147)
148) If th	e family paid $\frac{3}{50}$ of the	eir total income	in taxes for	the year, how much was	paid in taxes?	148)
	) \$1509 wer: A	B) \$1620		C) \$1260	D) \$1776	
year A		income was spo B) \$270	ent on cloth	ing, how much was spent C) \$290	t for clothing last D) \$251.50	149)
150) The	family saved $\frac{9}{50}$ of th	eir total income	each month	n. How much savings did	they have at the end	150)
	ine? ) \$1656 wer: B	B) \$2187		C) \$2088	D) \$2340	
151) The	family saved $\frac{3}{100}$ of t	heir total incom	e each mon	th. How much savings die	d they have at the	151)
A	of the year? ) \$888 wer: D	B) \$810		C) \$630	D) \$754.50	
152) The	family used $\frac{3}{25}$ of the	ir income for fo	od purchase	es. How much did they sp	end on food	152)
	chases for the year? ) \$3018	B) \$3552		C) \$2520	D) \$3240	

153) The family used  $\frac{7}{50}$  of their income on rent payments. How much did they spend on rent for the 153)

153) \_\_\_\_\_

year?

A) \$3521

B) \$4144

C) \$3780

D) \$2940

Answer: A

154) If  $\frac{3}{20}$  of the family income is spent on entertainment, how much did they spend for entertainment

154) \_\_\_\_\_

last year?

A) \$3150

B) \$3772.50

C) \$4440

D) \$4050

Answer: B

155) Other expenses account for  $\frac{1}{5}$  of the family income. How much was spent last year on other

155) \_\_\_\_\_

expenses?

A) \$5520

B) \$5030

C) \$4200

D) \$4000

Answer: B

Find the reciprocal.

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

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

D) 10

Answer: B

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

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

157) \_\_\_\_\_

158)

156) \_\_\_\_\_

A) 1

B) 14

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

C) No reciprocal

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

Answer: B

158) 9

A) No reciprocal

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

C) 1

D) 9

Answer: B

159)  $\frac{17}{14}$ 

159) \_\_\_\_

A)  $\frac{1}{17}$ 

B)  $\frac{14}{17}$ 

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

D) 14

Answer: B

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

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

160) \_\_\_\_\_

A)  $1\frac{9}{16}$ 

B) 1

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

D) 20

- 161)  $\frac{1}{6} \div \frac{6}{5}$ 
  - A)  $\frac{5}{36}$  B)  $7\frac{1}{5}$  C)  $\frac{1}{6}$  D)  $\frac{5}{6}$

Answer: A

- 162)  $\frac{4}{7} \div \frac{5}{7}$
- A)  $2\frac{6}{7}$  B)  $\frac{7}{20}$  C)  $1\frac{1}{4}$  D)  $\frac{4}{5}$

Answer: D

- 163)  $\frac{1}{7} \div \frac{1}{5}$ 
  - A)  $\frac{1}{35}$  B)  $\frac{5}{7}$  C) 35 D)  $1\frac{2}{5}$

Answer: B

- 164)  $\frac{2}{3} \div \frac{6}{7}$ 
  - A)  $\frac{4}{7}$  B)  $1\frac{2}{7}$  C)  $\frac{7}{9}$  D)  $1\frac{3}{4}$

Answer: C

- 165)  $\frac{5}{9} \div \frac{7}{2}$
- A)  $1\frac{17}{18}$  B)  $6\frac{3}{10}$  C)  $\frac{10}{63}$  D)  $\frac{18}{35}$

Answer: C

- $166)\frac{5}{3} \div \frac{1}{9}$
- A) 15 B)  $5\frac{2}{5}$  C)  $\frac{5}{27}$  D)  $\frac{1}{15}$

Answer: A

- $167) \frac{5}{13} \div \frac{15}{91}$
- A)  $2\frac{1}{3}$  B)  $\frac{75}{1183}$  C)  $11\frac{2}{3}$  D)  $\frac{3}{7}$

168) \_\_\_\_ 168)

A)  $\frac{1}{24}$ B)  $\frac{3}{14}$ C)  $\frac{1}{4}$ D)  $1\frac{1}{2}$ 

Answer: D

169) \_\_\_\_\_ 169)

A)  $\frac{2}{3}$ B)  $1\frac{1}{2}$ C)  $3\frac{1}{3}$ D)  $\frac{25}{96}$ 

Answer: A

Answer: B

Answer: D

170)  $9 \div \frac{3}{2}$ 

170) \_\_\_\_\_ B)  $\frac{1}{6}$ C)  $13\frac{1}{2}$ A) 6 D) 3

Answer: A

171)  $12 \div \frac{3}{5}$ 171) \_\_\_\_\_ A)  $7\frac{1}{5}$ C)  $\frac{1}{20}$ D) 12 B) 20

Answer: B

172)  $24 \div \frac{4}{7}$ 172) \_\_\_\_\_

A)  $13\frac{5}{7}$ C)  $\frac{1}{42}$ B) 42 D) 6

173)  $2 \div \frac{5}{4}$ 173) \_\_\_\_\_

A)  $1\frac{3}{5}$ C)  $\frac{1}{10}$ D)  $2\frac{1}{2}$ 

Answer: A

174)  $\frac{7}{4} \div 8$ 174) \_\_\_\_\_

B)  $\frac{1}{32}$ C)  $\frac{1}{14}$ D)  $\frac{7}{32}$ A) 14

175)  $\frac{1}{7} \div 5$ 

175) \_\_\_\_

A) 35

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

C) 7

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

Answer: B

176)  $\frac{32}{3} \div 4$ 

176) \_\_\_\_\_

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

B) 8

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

D)  $42\frac{2}{3}$ 

Answer: A

177)

177) \_\_\_\_\_

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

B) 120

C) 24

D)  $\frac{1}{120}$ 

Answer: B

178)

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

178) \_\_\_\_\_

A) 20

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

C) 4

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

Answer: A

179)

15 7 5 179) \_\_\_\_\_

A) 3

- B)  $2\frac{1}{3}$
- C)  $10\frac{5}{7}$
- D)  $\frac{3}{7}$

Answer: D

## Solve the problem.

180) A land developer wants to develop 18 acres of land. Each lot in the development is to be  $\frac{2}{3}$  of an acre. How many lots will the land developer have in the 18 acres?

180) \_\_\_\_\_

- A) 12 lot(s)
- B) 27 lots
- C)  $\frac{1}{3}$  lot
- D) 3 lots

Answer: B

181) A box of cereal contains ab	out 12 cups. A serving siz	e is $\frac{3}{4}$ cup. About how ma	nny servings are in	181)
the box of cereal? A) $3\frac{3}{4}$ servings	B) 9 servings	C) 16 servings	D) $5\frac{1}{3}$ servings	
Answer: C				
182) A bag of chips weighs 24 o	unces. A serving size is $\frac{3}{4}$	ounce. How many serving	gs are in the bag of	182)
chips?				
A) 32 servings	B) $9\frac{1}{3}$ servings	C) 18 servings	D) $6\frac{3}{4}$ servings	
Answer: A				
183) A bottle of ketchup has a n	et weight of 22 ounces. A	serving size is $\frac{1}{2}$ ounce. H	ow many servings	183)
are in the bottle of ketchup	?	-		
4	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 defined	ose cup. If the bottle of me	dicine is the size of 9	184)
dose cups, how many child	lren's doses are there in th	e bottle?		
A) 15 doses	B) 54 doses	C) $1\frac{1}{2}$ dose(s)	D) $9\frac{1}{6}$ doses	
Answer: B				
185) A technician has readings t	that take $\frac{2}{3}$ minute each to	o read and record. How m	any readings can be	185)
completed in 30 minutes? A) 20 readings Answer: B	B) 45 readings	C) 12 readings	D) 10 readings	
186) The floor of a rectangular r	room is to be tiled with $\frac{1}{3}$	foot square tiles along a 9	-foot wall. How	186)
many tiles will be needed a	9			
A) 28 tiles	B) $9\frac{1}{3}$ tiles	C) 27 tiles	D) 3 tiles	
Answer: C				
187) A piece of cheese weighing	$3\frac{2}{9}$ pound is to be divided	l into 10 equal portions. W	hat will be the weigh	187)

C) 45 pounds

D)  $\frac{1}{45}$  pound

B)  $\frac{5}{9}$  pound(s)

of each portion?

Answer: D

A)  $2\frac{2}{9}$  pound(s)

188)	A piece of cable which is $\frac{4}{5}$	m long is to be cut into pie	eces $\frac{1}{20}$ m long. How mar	y pieces will there bo	188)
	, and the second				
	A) 100 pieces	B) $\frac{1}{16}$ piece	C) 80 pieces	D) 16 pieces	
	Answer: D				
189)	The recipe for a chocolate cl	hip cake calls for $\frac{3}{4}$ pound	of chocolate chips. If a ba	kery wants to make	189)
	32 cakes, how many pound	s of chocolate chips will th	ey need?		
	A) 21 pounds	B) 8 pounds	C) 24 pounds	D) $10\frac{2}{3}$ pounds	
	Answer: C				
190)	An upholsterer wants to reu	upholster 280 chairs for a b	anquet hall. If each chair	needs $\frac{1}{7}$ pound of	190)
	brass tacks, how many pour			,	
	A) 4 pounds	B) 196 pounds	C) 1960 pounds	D) 40 pounds	
	Answer: D				
191)	A mechanic uses on average	$\frac{5}{3}$ gallon(s) of gear lube	o service each tractor diff	erential. Find the	191)
	number of tractors that can A) 150 tractors Answer: D	be serviced with 30 gallon B) 6 tractors	s of gear lube. C) 50 tractors	D) 18 tractors	
192)	A building contractor finds	that $\frac{1}{7}$ can of pipe joint co	mpound is needed to plui	mb each new home.	192)
	How many homes can be p	, lumbed with 6 cans of con	npound?		
	A) $10\frac{1}{2}$ homes		C) 42 homes	D) 6 homes	
	Answer: C				
193)	Jim has traveled $\frac{7}{8}$ of his to	tal trip. If the trip is a total	of 960 miles, how many r	niles has he gone?	193)
	A) 105 miles Answer: C	B) 120 miles	C) 840 miles	D) 420 miles	
194)	Susan has been working on	a job that will require 54 h	nours to complete. If she h	as completed $\frac{8}{9}$ of	194)
	the job, how many hours ha			,	
	A) $5\frac{1}{3}$ hours	B) 6 hours	C) 48 hours	D) 24 hours	

Answer: C

195) A scarf manufacturer requires  $\frac{3}{5}$  yard of fabric for each scarf produced. Find the number of scarves 195)

that can be made from 873 yards of fabric.

A) 1455 scarves

B) 2183 scarves

C) 524 scarves

D) 349 scarves

Answer: A

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

196) \_\_\_\_\_

of medication?

A) 5265 patients

B) 6500 patients

C) 650 patients

D) 9530 patients

Answer: B

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

197) 
$$4\frac{4}{7} \cdot 15\frac{3}{4}$$

197) \_\_\_\_\_

A) 73

B) 67

C)  $60\frac{12}{28}$ 

D) 72

Answer: D

198)  $3\frac{3}{5} \cdot 2\frac{1}{2}$ 

198) \_\_\_\_\_

A) 14

B)  $6\frac{14}{10}$ 

C) 9

D) 10

Answer: C

199)  $5\frac{1}{7} \cdot 1\frac{5}{9}$ 

199) \_\_\_\_

A) 3

B) 8

C) 5

D) 7

Answer: B

200)  $3\frac{5}{6} \cdot 6$ 

200) \_\_\_\_\_

A) 23

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

C) 108

D) 18

Answer: A

201)  $4 \cdot 6\frac{11}{18}$ 

201) \_\_\_\_\_

A)  $26\frac{6}{9}$ 

B)  $26\frac{4}{9}$ 

C)  $24\frac{11}{18}$ 

D)  $10\frac{4}{9}$ 

Answer: B

202)  $2 \cdot 4\frac{11}{18}$ 

202)

A) 8

B)  $8\frac{2}{9}$ 

C)  $8\frac{11}{18}$ 

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

Answer: D

203) 
$$2\frac{2}{5} \cdot \frac{2}{9}$$
 203) \_\_\_\_\_

A)  $\frac{8}{15}$ 

- B)  $2\frac{8}{15}$
- C)  $2\frac{4}{45}$
- D)  $\frac{6}{15}$

Answer: A

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

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

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

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

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

Answer: C

205) 
$$4 \cdot 3\frac{4}{7} \cdot \frac{1}{5}$$

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

Answer: C

206) 
$$3\frac{2}{9} \cdot 3 \cdot \frac{3}{8}$$

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

- B)  $9\frac{16}{27}$
- C)  $9\frac{5}{8}$
- D)  $6\frac{5}{8}$

Answer: A

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

207) 
$$4\frac{6}{7} \div 3\frac{1}{9}$$

- A)  $2\frac{55}{98}$
- B)  $1\frac{55}{98}$
- C)  $1\frac{56}{98}$
- D)  $1\frac{55}{97}$

Answer: B

208) 
$$3\frac{6}{7} \div 1\frac{1}{3}$$

- A)  $2\frac{26}{28}$
- B)  $2\frac{25}{27}$
- C)  $2\frac{25}{28}$
- D)  $3\frac{25}{28}$

Answer: C

209) 
$$3\frac{4}{9} \div 1\frac{4}{5}$$

- A)  $1\frac{74}{80}$
- B)  $1\frac{74}{81}$
- C)  $1\frac{75}{81}$
- D)  $2\frac{74}{81}$

Answer: B

- 210)  $5\frac{3}{5} \div 2\frac{4}{7}$ 
  - A)  $2\frac{9}{45}$
- B)  $2\frac{8}{44}$
- C)  $2\frac{8}{45}$
- D)  $3\frac{8}{45}$

Answer: C

211)  $13 \div 4\frac{1}{3}$ 

211) \_\_\_\_\_

212) \_\_\_\_\_

213) \_\_\_\_\_

210) \_\_\_\_\_

A) 3

B) 4

C) 2

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

Answer: A

212)  $2\frac{6}{7} \div 10$ 

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

- C)  $\frac{1}{7}$
- D)  $\frac{3}{7}$

Answer: B

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

213)  $4\frac{4}{9} \div \frac{2}{9}$ 

- B)  $18\frac{1}{2}$
- C) 21

D) 20

Answer: D

A) 19

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

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 flatten with a fork. Cook until brown.

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

214) \_\_\_\_\_

A) Estimate: 9 tsp Exact:  $7\frac{1}{2}$  tsp B) Estimate: 6 tsp Exact:  $6\frac{3}{4}$  tsp

C) Estimate: 9 tbsp Exact:  $7\frac{1}{2}$  tbsp D) Estimate:  $7\frac{1}{2}$  tsp Exact: 9 tsp

C) Estimate: 2 tsp Exact: 3 tsp

Answer: A

215) Find the amount of vanilla needed if the recipe is halved.

215) \_\_\_\_\_

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

D) Estimate:  $\frac{3}{4}$  tsp

Exact: 1 tsp

Answer: A

216) Find the amount of white sugar needed if you take  $2\frac{1}{2}$  times the recipe.

216) \_\_\_\_\_

A) Estimate: 3 cups Exact: 3 cups B) Estimate:  $3\frac{3}{4}$  cups

Exact: 5 cups

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

Answer: D

217) Find the amount of cream of tartar needed if you take $1\frac{1}{2}$ times the r
---

217)

A) Estimate: 4 tsp

Exact:  $3\frac{3}{4}$  tsp

B) Estimate:  $3\frac{3}{4}$  tsp

Exact: 6 tsp

C) Estimate: 4 tsp

Exact:  $3\frac{3}{8}$  tsp

D) Estimate: 6 tsp Exact:  $3\frac{3}{8}$  tsp

Answer: C

## Solve the problem.

218) A small company sells stock for  $8\frac{3}{8}$  dollars per share. How much will 320 shares cost?

218)

- A) 2680 dollars
- B) 320 dollars
- C) 323 dollars
- D)  $38\frac{14}{67}$  dollars

Answer: A

219) Tim needs to apply  $3\frac{1}{4}$  gallons of herbicide per acre of soybeans. How many gallons of herbicide are needed for 300 acres?

219) \_\_\_\_

- A) 226 gallons
- B)  $92\frac{4}{13}$  gallons C) 975 gallons
- D)  $225\frac{1}{4}$  gallons

Answer: C

220) On a certain map, 1 inch equals 20 miles. How many miles are in  $2\frac{3}{4}$  inches?

220)

- A)  $10\frac{3}{4}$  miles
- B)  $7\frac{3}{11}$  miles
- C) 13 miles
- D) 55 miles

Answer: D

221) A technician has readings that take  $2\frac{1}{3}$  minutes each to read and record. How many readings can

221) \_\_\_\_

be completed in 147 minutes?

- A) 343 readings
- B) 8 readings
- C) 63 readings
- D) 99 readings

Answer: C

222) The floor of a rectangular room is to be tiled with  $\frac{1}{3}$  foot square tiles along a  $12\frac{1}{4}$  foot wall. How many tiles will be needed along the wall?

222)

- A)  $36\frac{3}{4}$  tiles
- B)  $36\frac{1}{4}$  tiles
- C)  $4\frac{1}{12}$  tiles
- D) 38 tiles

	223) Stock in a company is se	lling for $$6\frac{1}{2}$ per share.$	. If someone purchased \$14	.82 worth of stock in this	223)
	company, how many sha	ares did they get?			
	A) 5928 shares	B) 1482 shares	C) 228 shares	D) $183\frac{1}{4}$ shares	
	Answer: C				
	224) It requires $2\frac{1}{2}$ cups of co	oncentrate per quart of v	water to make a certain juid	ce. How many cups are	224)
	needed to make $14\frac{1}{2}$ qua	arts of juice?			
	A) $5\frac{4}{5}$ cups	B) $36\frac{1}{4}$ cups	C) 145 cups	D) $72\frac{1}{2}$ cups	
	Answer: B				
	225) A car traveled 264 miles	on $9\frac{7}{9}$ gallons of gas. F	How many miles per gallor	did it get?	225)
	A) 27 mpg	B) 28 mpg	C) $29\frac{2}{9}$	D) $29\frac{1}{3}$ mpg	
	Answer: A				
Prov	ide an appropriate response.				
	226) When the numerator is t	he same as the denomin	nator, for example $\frac{10}{10}$ , the	fraction is called a(n)	226)
	fraction.				
	A) uncommon Answer: D	B) whole	C) proper	D) improper	
	Albwel. D				
	227) A proper fraction has the	e form $\frac{x}{17}$ . What is the 1	largest possible number th	at x can be?	227)
	A) 17	B) 18	C) 8.5	D) 16	
	Answer: D				
	228) You are asked to change	$10\frac{8}{11}$ to an improper f	raction. What should be yo	ur first step?	228)
	A) Multiply 8 and 10.		B) Divide 8 by 11.	10	
	C) Add 10 and 8. Answer: D		D) Multiply 11 and	10.	
	Allower. D				
	229) You are asked to change	$\frac{23}{22}$ to a mixed number	. What should be your firs	t step?	229)
	A) Multiply 23 and 22 C) Divide 22 by 23.		B) Add 23 and 22. D) Divide 23 by 22.		
	Answer: D				
	230) A prime number has exa	actly factor(s).			230)
	A) 2	B) 1	C) 3	D) 0	
	Answer: A				

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231) The only consecutive whole	e numbers that are bo	th prime numbers are	and .	231)
A) 0 and 1	B) 2 and 3	C) 6 and 7	D) 1 and 2	
Answer: B				
232) One way to determine if tw	vo fractions are equiva	elent is to use		232)
A) equivalent terms		B) the method of	prime factors	
C) simplification		D) common facto	rs	
Answer: B				
222) Multiply two fractions by	the numerato	re and the den	ominators.	233)
233) Multiply two fractions by	—— the numerato	<del></del>		233)
A) multiplying; adding C) adding; multiplying		B) multiplying; c D) multiplying; n	<u> </u>	
, 6 17 6		D) munipiying, n	iumpiymg	
Answer: D				
234) Fill in the blank with "alwa	ys greater than," "som	etimes greater than," "a	lways less than," or "cann	ot 234)
be determined," whichever	response is correct. V	When dividing a positive	e fraction by $\frac{1}{7}$ , the answer	r
is the fraction.				
A) always greater than		B) cannot be dete	rmined	
C) always less than		D) sometimes gre	ater than	
Answer: A				
235) Finish the statement with a	_		e needs to:	235)
A) Add the numerators a	1 2			
B) Add the numerators a			tous on d moultinals, the	
C) Use the reciprocal of to denominators.	the second fraction (d.	ivisor), add the numera	iors and munipiy the	
D) Use the reciprocal of t	the second fraction (d			
2, ose the reciprocuror	me secona nacion to	ivisor) and multiply.		