MS "B" Math Final Exam Review

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

Find the sum.

2. $\frac{1}{2} + \frac{3}{8}$ a. $\frac{1}{2}$ b. $\frac{3}{4}$

 $3. \quad 3\frac{2}{7} + 2\frac{3}{14} + 4\frac{3}{7}$

a. $9\frac{13}{14}$ b. $10\frac{1}{14}$

 $\frac{5}{7} + 2\frac{1}{2}$

a. $14\frac{1}{21}$

b. $13\frac{1}{14}$ c. $10\frac{3}{14}$ d. $18\frac{1}{14}$

5. Gerri spends $\frac{5}{24}$ of her money on pencils and $\frac{3}{24}$ on paper. What fraction of her money does she spend? Give the answer in simplest form.

Find the difference.

7. Use any method to add or subtract.

 $\frac{5}{7} - \left(\frac{3}{14} + \frac{3}{14}\right)$

c. $\frac{1}{7}$ d. $1\frac{1}{7}$

8. Peter drank $\frac{1}{3}$ of a quart of milk. Steve drank $\frac{3}{4}$ of a quart. How much more did Steve drink than Peter?

 9.	Last year it rained $2\frac{1}{2}$ in. in April and $1\frac{1}{3}$ in. in May. Which number below is the total rainfall for the two
	months?

a.
$$3\frac{5}{6}$$
 in.

b.
$$3\frac{1}{6}$$
 in.

c.
$$3\frac{1}{5}$$
 in.

d.
$$4\frac{1}{6}$$
 in.

Solve the equation.

a.
$$\frac{3}{4}$$

b.
$$\frac{1}{2}$$

c.
$$1\frac{1}{3}$$

d.
$$1\frac{1}{2}$$

Write an equivalent time using only the smallest unit.

a. 182 min

b. 319 min

c. 332 min

d. 317 min

b. 55 d

c. 43 d

d. 48 d

13. Laura wants to take a trolley from Lakefront Park to the zoo. The trips start at 1:05 P.M. and take 45 minutes. Trolley departures occur every 10 minutes. Which of the following tables shows the correct departure and arrival times for the trolleys?

aiiiv	ai times for t	me noneys:			
a.	Trolley	Departs	Amives		
	First	1:05p.m.	1:50 p.m.		
	Second	1:50 p.m.	2:35p.m.		
	Third	2:35p.m.	3:20 p.m.		
	Fourth	3:20 p.m.	4:05p M		

Trolley	Departs	Arrives		
First	1:05 p.m.	1:50 p.m.		
Second	1:15p.m.	2:00 p.m.		
Third	1:25 p.m.	2:10 p.m.		
Fourth	1:35 p.m.	2:20 p.m.		

b.	Trolley	Departs	Arrives
	First	1:05p.m.	1:15p.m.
	Second	1:50 p.m.	2:00 p.m.
	Third	2:35p.m.	2:45p.m.
	Fourth	3:20 p.m.	3:30 p.m.

	Trolley	Departs	Amives		
	First	1:05p.m.	1:15p.m.		
	Second	1:15p.m.	1:25p.m.		
	Third	1:25 p.m.	1:35p.m.		
	Fourth	1:35 p.m.	1:45 p.m.		

14. Claude has $5\frac{1}{2}$ meters of ribbon and uses $4\frac{2}{3}$ meters of it. How much ribbon does Claude have left? Give your answer in simplest form.

a.
$$1\frac{1}{6}$$
 meters

b.
$$11\frac{1}{6}$$
 meters

c.
$$\frac{5}{6}$$
 meters

b.
$$11\frac{1}{6}$$
 meters c. $\frac{5}{6}$ meters d. $1\frac{5}{6}$ meters

Find the product. Simplify.

____ 15.
$$\frac{4}{9}$$
 of 27

a.
$$\frac{31}{9}$$

c.
$$\frac{1}{12}$$

Estimate the product.

____ 16. $5\frac{1}{3} \times 11\frac{3}{5}$

- b. 50
- c. 55
- d. 60

17. Estimate the area of a picture measuring $3\frac{1}{7}$ feet by $8\frac{1}{9}$ feet. a. 27 ft² b. 24 ft² c. 36 ft²

- d. 32 ft²

Find the quotient.

 $= 18. \quad \frac{5}{6} \div \frac{6}{7}$

- b. $\frac{4}{5}$ c. $\frac{5}{196}$

__ 20. You have $28\frac{4}{9}$ grams of a substance and want to divide it into vials of $7\frac{1}{9}$ grams each. Estimate how many vials you can fill.

- a. 7 vials
- b. 5 vials
- c. 4 vials
- d. 6 vials

21. A baker at Rod's Bakery misread the directions and used $5\frac{3}{4}$ cups of flour in a recipe. It was $1\frac{3}{4}$ times too much flour. How much flour should the baker have used? a. $11\frac{3}{8}$ cups

b. $5\frac{9}{16}$ cups

c. $4\frac{3}{5}$ cu

- c. $4\frac{3}{5}$ cups
- d. $\frac{11}{23}$ cups

Solve the equation. Check the solution.

22. $\frac{x}{3} = \frac{1}{8}$ a. $\frac{1}{24}$

 $23. \quad \frac{3}{7}x = 18$

- b. 56
- c. 63
- d. 42

24. Miako and Jo are planning to go together to a movie that starts at 3:00 P.M. It takes 15 minutes to travel from Miako's house to Jo's home and another 10 minutes to get to the theater. What is the latest time that Miako can leave his home and still make the 3:00 P.M. movie on time?

- a. 2:45 P.M.
- b. 2:40 P.M
- c. 2:35 P.M
- d. 2:55 P.M

25. Which would you measure using yards?

	b. length of a desk				
	c. length of your finger				
	d. length of a shopping mall				
 26.	Which of the following would likely weigh about	out 8	3 pounds?		
	a. newborn baby		_		
	b. mother whale				
	c. large dog				
	d. professional football player				
 27.	In a math question, Magda correctly answered	a qu	estion that asked fo	r a ty	pical measure of orange juice in
	full family-size jug. Which was her answer?				
	a. 2 cups b. 1 gal	c.	10 gal	d.	10 fl oz
 28.	Which unit would you use to measure the amo	unt d	of juice in a glass?		
	a. gallons b. quarts		pints	d.	ounces
29.	Which would you most likely measure using in	nche	s?		
	a. width of a road		length of your nos	e	
	b. length of a hallway		distance to the mo		
	,				
	Complete the statement.				
	_				
20	10 -				
 30.	$16\frac{1}{2}$ ft = \blacksquare yd				
	-	C	1	d.	1
	a. $\frac{1}{5\frac{1}{2}}$ b. 33	٠.	8-1	u.	49-7
	2		4		2
 31.	Subtract.				
	9 yd 4 ft				
	<u>-6 yd 3 ft</u>				
	2 17.6		2 116		
	a. 3 yd 7 ft		3 yd 1 ft		
	b. 15 yd 1 ft	a.	15 yd 7 ft		
32.	Which three ratios equal $\frac{4}{12}$?				
	a. $\frac{1}{3}$, $\frac{2}{6}$, $\frac{3}{9}$ b. $\frac{3}{1}$, $\frac{2}{6}$, $\frac{9}{3}$	c.	3 6 9	d.	$\frac{1}{3}, \frac{6}{2}, \frac{3}{9}$
	3 6 9 1 6 3		1 2 3		3 * 2 * 9
33.	The American flag is customarily made with it	s wi	dth and length in the	e rati	to of 10 to 19. Which of the
 	following dimensions is in the correct ratio for		_		
	a. 107 by 193 in. b. 100 by 190 in.		107 by 190 in.	d.	100 by 193 ft.
34.	Determine which pair of ratios can form a prop		<u> </u>		3
 5		c.		d.	3 24
	a. $\frac{3}{5}$, $\frac{18}{45}$ b. $\frac{3}{5}$, $\frac{27}{35}$	٠.	$\frac{3}{5}$, $\frac{21}{35}$	G.	$\frac{3}{5}$, $\frac{24}{30}$
35					2 20
 35.	Determine which pair of ratios CANNOT form	_	_	d	2 6
	a. $\frac{2}{7}$, $\frac{4}{14}$ b. $\frac{2}{7}$, $\frac{4}{21}$	Ċ.	$\frac{20}{70}$, $\frac{2}{7}$	u.	$\frac{2}{7} \cdot \frac{6}{21}$
	/ 14 / 21		10 /		1 21
36.	Which ratio can form a proportion with $\frac{2}{3}$?				
 ,	3				

a

a. length of a cross-country race course

		a.	8 9	b.	$\frac{6}{12}$	c.	<u>8</u> 15	d.	<u>18</u> 27
	37.	Wh	ich ratio CANNOT	forn	n a proportion with	$\frac{2}{5}$?			
		a.	6	b.	14	c.	4	d.	6
			20		14 35		10		15
	38.		we the first proportion $= \frac{9}{72}, \frac{x}{9} = \frac{y}{12}$	on fo	or x. Use that value	to so	lve the second prop	ortic	on for y.
		a.	x = 3, y = 4	b.	x = 4, y = 3	c.	x = 27, y = 36	d.	x = 3, y = 6
	39.		an travels 180 mile 75 gallons		6 gallons of gas. H 25 gallons		nany gallons will it i 50 gallons		to travel 750 miles? 225 gallons
	40.	Wh	ich ratio can form a	ı proj	portion with $\frac{6}{9}$?				
		a.	8	b.	12	c.	8	d.	10
			8 12		8		11		12
	41.	Wh	ich ratio CANNOT	forn	a proportion with	$\frac{8}{18}$,		
		a.	60	b.	46 108	c.	12	d.	4 9
			135		108		27		9
		Sol	ve the proportion.						
	42.	19 12	$=\frac{f}{9}$						
		19 12 a.	$=\frac{f}{9}$ 15.25		14.75		14.25		none of these
	42. 43.	19 12 a. A se	$= \frac{f}{9}$ 15.25 cale model of the G	olde	n Gate Bridge in S	an Fr	ancisco has a main	span	none of these that is 284 centimeters long. If the
		19 12 a. A se scal	$= \frac{f}{9}$ 15.25 cale model of the G	olde cm :	n Gate Bridge in S	an Fr the n		span lge?	
		19 12 a. A se scal a.	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1	olde cm : b.	n Gate Bridge in Sa 15 ft, how long is 4,260 ft	an Fr the n	ancisco has a main anain span of the brid	span lge?	that is 284 centimeters long. If the
		19 12 a. A se scal a. Wr	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft	olde cm : b.	n Gate Bridge in Sa 15 ft, how long is 4,260 ft	an Fr the n	ancisco has a main anain span of the brid	span lge?	that is 284 centimeters long. If the
_	43.	19 12 a. A se scal a. Wr	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft	olde cm : b.	n Gate Bridge in Sa 15 ft, how long is 4,260 ft	an Fr the n c.	ancisco has a main anain span of the brid	span lge? d.	that is 284 centimeters long. If the
	43.	19 12 a. A se scal a. Wr 4% a. Of t	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft ite the percent as a 0.004 the 380 students at 6?	b. b. cm: b. characteristics b. Centi	n Gate Bridge in Sa 15 ft, how long is 4,260 ft simal.	an Fr the n c. c. 25%	ancisco has a main anain span of the brid 19 ft 0.04 are on the honor ro	span lge? d. d. ll. H	that is 284 centimeters long. If the 3,150 ft 0.4 ow many students are on the honor
	43.44.45.	19/12 a. A se scal a. Wr 4% a. Of troll a.	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft ite the percent as a 0.004 the 380 students at 6 ? 95 students	b. Centi	n Gate Bridge in So 15 ft, how long is 4,260 ft simal. 4 ral Middle School, 105 students	c. 25%	ancisco has a main an ann span of the brid 19 ft 0.04 are on the honor ro	span lge? d. d. ll. H	that is 284 centimeters long. If the 3,150 ft 0.4 ow many students are on the honor 100 students
	43.44.45.	19 12 a. A se scal a. Wr 4% a. Of the roll a. Every project of the	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft ite the percent as a 0.004 the 380 students at 6 ? 95 students	b. Cent b. lass l	n Gate Bridge in So 15 ft, how long is 4,260 ft cimal. 4 ral Middle School, 105 students has to do a science	c. 25% c. proje	ancisco has a main an	d. d. d. d.	that is 284 centimeters long. If the 3,150 ft 0.4 ow many students are on the honor
	43.44.45.	a. A se scal a. Wr 4% a. Of troll a. Eve proja.	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft ite the percent as a 0.004 the 380 students at 6? 95 students eryone in Sandy's clipicts. How many str	b. b. Cent. b. lass I	n Gate Bridge in Son 15 ft, how long is 4,260 ft simal. 4 ral Middle School, 105 students has to do a science its still need to do the 54 students	c. 25% c. proje	ancisco has a main an ann span of the brid 19 ft 0.04 are on the honor ro 85 students ect. Out of the 30 students projects?	d. d. d. d.	that is 284 centimeters long. If the 3,150 ft 0.4 ow many students are on the honor 100 students as, 80% have completed their
	43.44.45.	a. A se scal a. Wr 4% a. Of to roll a. Eve proj a.	$= \frac{f}{9}$ 15.25 cale model of the Gole of the model is 1 2,130 ft ite the percent as a 0.004 the 380 students at 6? 95 students eryone in Sandy's clipicts. How many students 6 students	b. Centib. b. lass l luden b.	n Gate Bridge in Son 15 ft, how long is 4,260 ft simal. 4 ral Middle School, 105 students has to do a science its still need to do the 54 students	c. 25% c. proje	ancisco has a main an ann span of the brid 19 ft 0.04 are on the honor ro 85 students ect. Out of the 30 students projects?	d. d. d. d.	that is 284 centimeters long. If the 3,150 ft 0.4 ow many students are on the honor 100 students as, 80% have completed their

 48.	60% off a pair of shoes for \$51.95						
	a. \$40	b. \$30	c. \$20				

Short Answer

49. There are 20 people in Susie's class. When Susie took a poll about winter sports, she found that nine people enjoy figure skating, six people enjoy skiing, one person plays ice hockey, and four people simply do not enjoy cold weather. In addition, she found out that three of those people who enjoy figure skating also enjoy skiing. Draw a diagram to figure out how many people enjoy figure skating but not skiing.

d. \$26

50. The sum of three consecutive odd numbers is 81. Find the numbers.