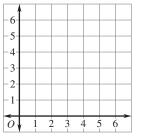
McDougal Littell Math, Course 1 51 Unit 1 Assessment Book

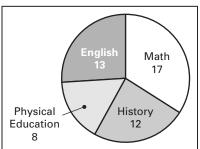
Name _____ Unit 1 Test For use after Chapters 1-4

Find the sum, difference, product or quotient. Answers **1.** 287 + 304**2.** 416 ÷ 13 **3.** 27 × 136 1. 2. **Evaluate the expression.** 3. 5. $9^2 - 36 \div 3$ **4.** 4³ 4. _____ **7.** $5^2 + 3 \times 8$ **6.** $12 + 6 \times 3 - 14 \div 7$ 5. ____ Evaluate the expression when x = 8. 6. _____ **9.** $36 \div (x + 4)$ **8.** 12x + 77. _____ Solve the equation using mental math. 8. _____ **10.** 36 - x = 17**11.** $35 \div x = 7$ 9. 10. Estimate the length of the object using the indicated unit. 11. _____ **12.** length of the sunflower seed (millimeters) 12. _____ **13.** length of the line segment (inches) 13. **14.** Find the perimeter and area of a rectangle with a length of 14. _____ 12 inches and a width of 18 inches. 15. _____ **15.** A picture of a bicycle in a catalog is 4 inches tall. The scale is 16. _____ 2 inches : 18 inches. How tall is the actual bike? **17.** <u>See left.</u> **16.** You want to compare the numbers of sixth graders to the **18.** <u>See left.</u> numbers of seventh graders on the sports teams at your school. Should you use a stacked bar graph or a double bar graph? 19. _____

Graph the point on the coordinate grid.

- **17.** (5, 3)
- **18.** (2, 4)
- **19.** Fifty students were asked what they believe their most important school subject is. Use the results shown in the circle graph to predict the number of students out of 250 that would choose math.







Answers

Unit Test 1 For use after Chapters 1-4

20. Find the mean, median, mode(s) and range of the data:

Continued

	22, 26, 24, 22, 16, 12, 18, 22,	, 18, 20	20
21.	Write 31.0152 in words.		
22.	Complete the statement:		
	2 and 6 tenths centimeters =	<u>?</u> centimeters.	
23.	Order the numbers from least	t to greatest:	21
	5.09, 5.2, 5.12, 5.07, 5.1		
Roi	Ind the decimal as specifie	d	
	92.0327 (nearest hundredth)	u.	22.
	0.01561 (leading digit)		23
	Use rounding to estimate the	sum 38 + 42 + 37	24
	0	stimate the sum $5.69 + 2.12 + 3.07$.	25
			26
	luate the expression when	-	27
28.	15.7 + x	29. $(9.1 + x) - y$	28
Fin	d the product.		29
30.	7×1.45	31. 4.315 × 8	30
32.	0.35×0.71	33. 2.1 × 0.3	31
34.	Find the area of a rectangle w 3.12 meters.	vith length 6.2 meters and width	32
25		ound. You buy 1.2 pounds in one	33
55.	-	other. To the nearest cent, how	34
	much do you spend on meat?	,	35
Div	ide. Round to the nearest t	enth if necessary.	36
36.	15 ÷ 6	37. 7)24.76	37
	$6.205 \div 0.1$	39. 0.24)156.8	38
			39
	oose an appropriate metric		40
40.	capacity of an eyedropper	41. mass of a truck	41
42	Complete the statement: 175	g = ? kg.	42



Tell whether the r	number is <i>prime</i> , c	omposite, or neither.	Answers
1. 34	2. 17	3. 1	1
Write the prime fa	actorization of the	number.	2
4. 50	5. 56	6. 207	3
Find the GCF of t	he numbers.		4
7. 28, 42	8. 70, 105	9. 30, 42, 54	5
Complete the stat	tement.		6 7
-		8 ?	8
10. $\frac{?}{9} = \frac{42}{54}$	11. $\frac{1}{?} = \frac{1}{60}$	12. $\frac{8}{9} = \frac{?}{81}$	9
Find the LCM of t	he numbers.		10
13. 24, 60	14. 14, 21	15. 6, 8, 12	11
16. Three different	brands of fettuccini	noodles were measured.	12
		e brands were $\frac{7}{32}$ inch, $\frac{3}{16}$	13
inch, and $\frac{2}{8}$ incl	h. Put the fractions in	n order from least to greatest.	14
17. Write $\frac{19}{4}$ as a m	nixed number and as	a decimal.	15
		plest form and as an	16
improper fracti			17
19. Write three and improper fract	l two eighths as a de ion.	cimal and as an	18
			19
Estimate the sum		2 4	20
20. $1\frac{1}{10} + \frac{9}{11}$	21. $\frac{7}{8} - \frac{2}{5}$	22. $3\frac{3}{11} - 1\frac{4}{9}$	21
Find the sum or d	ifference.		22 23
23. $\frac{1}{7} + \frac{2}{7}$		25. $3\frac{5}{7} - 1\frac{3}{7}$	23
, ,	0 1	25. $5\frac{1}{7} - 1\frac{1}{7}$	25
26. $4\frac{1}{3} + 2\frac{5}{12}$	27. $1\frac{2}{3} - \frac{5}{6}$	28. $2\frac{1}{6} - 1\frac{1}{4}$	26
			27
		ay and $2\frac{2}{5}$ acres on Sunday.	28
How much gras	ss dia you cut?		29

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29. _



Add or subtract the measures of time.

30.	5 h 47 min	31. 7 h	15 min 35 sec
	<u>+ 2 h 29 min</u>	<u>-3 h</u>	30 min 42 sec

32. A preschool child attends school from 9:15 A.M. to 1:35 P.M. How long is she in school?

Find the product.

- **33.** $\frac{2}{3} \times \frac{7}{9}$ **34.** $\frac{3}{4} \times \frac{8}{15}$
 35. $7 \times \frac{2}{5}$ **36.** $1\frac{2}{3} \times \frac{5}{6}$
 37. $\frac{7}{8} \times 2\frac{2}{7}$ **38.** $3\frac{1}{3} \times 2\frac{2}{5}$
- **39.** Estimate the product $\frac{3}{5} \times 26$.
- **40.** Evaluate the expression $\frac{5}{6}x$ when $x = \frac{3}{4}$.

Find the quotient.

- **41.** $\frac{2}{5} \div \frac{3}{8}$ **42.** $\frac{2}{3} \div \frac{8}{9}$
 43. $7 \div \frac{3}{5}$ **44.** $1\frac{4}{5} \div 12$
- **45.** $2\frac{1}{3} \div 1\frac{1}{7}$ **46.** $4\frac{2}{3} \div 3\frac{1}{2}$
- **47.** You need to travel 250 miles in $4\frac{1}{6}$ hours. If you travel at a steady speed, how many miles should you travel per hour?

Tell whether the measurement is a *weight*, a *capacity*, or a *length*.

48. $1\frac{3}{16}$ inches **49.** 6 fluid ounces

Complete the statement.

50. 5 lbs 4 oz = _? oz **51.** 3 yd 2 ft = _? ft

30. _____ 31. _____

33. _____

35. ____

34. _____

36. _____

37. _____

38. _____

39. _____

40. _____

41.

42.

43. _____

45. _____

46. _____

48. _____

49. _____

50. _____

51. _____

44.

Answers

32.

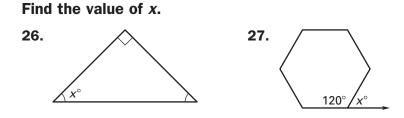




1.		the 50 members are tend	ors. Write the ratio	Answers	;
	three different wa	iys.		1	
Con	nplete the state	ment.		2	
2.	$\frac{15 \text{ lb}}{\$3} = \frac{30 \text{ lb}}{?}$	3. $\frac{120 \text{ mi}}{6 \text{ h}} = \frac{?}{18 \text{ h}}$	4. $\frac{?}{10 \text{ sec}} = \frac{7 \text{ m}}{40 \text{ sec}}$		
_			· ~ · .		
5.	A computer progr Write the unit rate	rammer types 75 words	in 5 minutes.		
Solv	e the proportion	1.		7	
6.	$\frac{x}{6} = \frac{13}{39}$	7. $\frac{14}{35} = \frac{y}{10}$	8. $\frac{64}{7} = \frac{16}{18}$	8	
	0 02		λ, 10	9	
9.	A model boat is 6 how long is the ad	6 inches long. If the scal	e is 2 in. : 5 ft,	10	
	-			11	
Wri	te the decimal o	r fraction as a percer	nt.	12	
10 .	0.36	11. 0.02	12. $\frac{14.2}{100}$	13	
	2	3	100	14	
13.	$\frac{2}{5}$	14. $\frac{3}{25}$	15. $\frac{3}{8}$	15	
16.	A survey at a mid	Idle school said that $\frac{3}{5}$ o	f the students had	16	
	-	me. What percent of stu		17	
	a computer at hor	me?		18	
Fine	the percent of	the number.		19	
17.	75% of 12	18. 20% of 60	19. 16% of 15	20	
20	An amusement park is offering tickets to schools at a 20%			21	See left.
20.	-	ts are normally \$36, how		22	See left.
Ske	tch the figure de	·	-	23	See left.
21.	\rightarrow	22. ∠ABC	23. \overrightarrow{MN}	24	
			IIII	25	

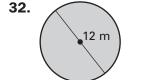
- **24.** Find the measure of an angle that is complementary to an angle measuring 42°.
- **25.** Tell whether the angle measures 62° , 62° , and 56° are those of a triangle. If so, classify the triangle as *acute*, *right*, or *obtuse*.

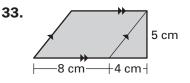




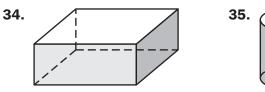
- **28.** Sketch a rectangle that is also a rhombus. Then draw the lines of symmetry.
- **29.** $\triangle RST$ is congruent to $\triangle FGH$. List the corresponding parts.
- **30.** What type of triangle has 3 lines of symmetry?
- **31.** Find the circumference of a circle that has a radius of 200 inches.

Find the area of the figure.





Classify the solid.





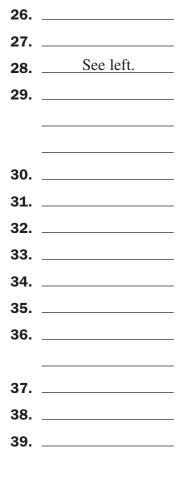
36. Count the faces, edges, and vertices of the solid in Exercise 34.

Find the surface area and the volume of the prism.



39. A picnic cooler has a volume of 10 cubic feet. If the length and the height of the cooler are both 2 feet, how wide is the cooler?







Answers

1. _____

5.

6. _____

7. _____

8. _____

9. _____

10. _____ 11. _____ 12. _____

13. _____ 14. _____

15. _____

18. _____

19. _____ 20. _____

See graph.

16. _____

17. _

Date

Unit 4 Test For use after Chapters 11-13

Name

NIT

18.

1. Order the inte	gers -1 , -7 , 0 , 3 , -2 fr	rom least to greatest.			
Find the absolute	e value of the number.				
2. -10	3. 13	4. -25			
Find the sum or	difference.				
5. $-21 + 17$	6. 19 + (-31)	7. −17 + (−23)			
8. 13–(–23)	9. -27 - 32	10. 24 - (-6)			
Find the product	or quotient.				
11. 11(-8)	12. -11(0)	13. -6(-12)			
14. 64 ÷ (−8)	15. −35 ÷ 5	16. −32 ÷ (−4)			
17. The vertices of $\triangle ABC$ are $A(-2, 4)$, $B(-4, 1)$, and $C(0, 2)$. Draw $\triangle ABC$ in the coordinate plane. Then translate it 3 units to the right and 4 units down to form $\triangle XYZ$. Give the coordinates of points <i>X</i> , <i>Y</i> , and <i>Z</i> .					
	transformation is a <i>tr</i> eflection in the y-axis,	anslation, a reflection , or a rotation.			

19.

х

0

х

Write the sentence as an equation.

- **20.** A number *m* decreased by 7 is 9.
- **21.** A number *j* divided by 6 is 5.

0

22. Make a box-and-whisker plot of the data 21, 8, 12, 17, 11, 35, 22, 24, 31, 19, and 25.





Unit 4 Test

For use after Chapters 11-13

Solve the equation.

Name

23. <i>x</i> + 16 = 31	24. $72 = 50 + z$
25. $27 = y - 9$	26. $w - 36 = 17$

Solve the equation.

- **27.** 24w = 72 **28.** $\frac{z}{10} = 110$ **29.** 16 = 0.5x**30.** $4 = \frac{y}{12}$
- **31.** Complete the input-output table using the function rule y = 4x 6 and the input values x = 2, 3, and 5. Then graph the function.

input x	output y

-14	у					
-12						
-10						
-8-					_	_
-6-	_	_	_	-		
-4-		_	_	_	-	
-2-		+	+	+	+	-
0	1	2	3	4	5	r

Answers 23. 24. 25. 26. 27. 28. 29. 30. 31. See left. 32. 33. 34. 35. 36.

A bag contains 8 tiles labeled 1, 3, 4, 5, 9, 10, 12, and 13. You randomly choose one tile. Find the probability of the event.

- **32.** The tile has an even number.
- **33.** The number is a multiple of 5.
- **34.** You visit the zoo but only have time to visit 2 animals. You can see a lion, tiger, monkey, yak, or zebra. Use the first letters of the animal names to list all the combinations of 2 animals you can visit.

Each spinner is divided into equal parts. You spin the spinners. Find the probability of the event.

- **35.** You spin two 3's.
- **36.** You spin a sum of 6.

