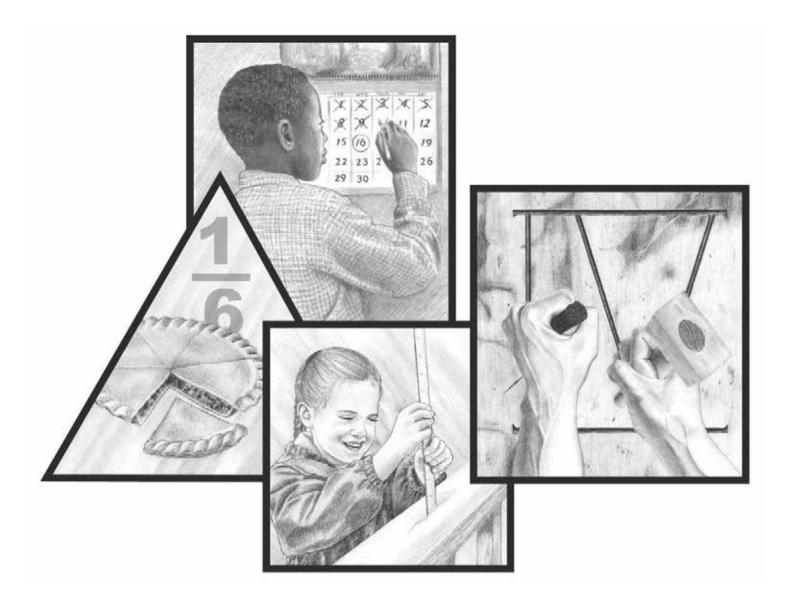
# Mathematics **Diagnostic Tests 100-400**



当 Sunrise Edition



Name \_\_\_\_\_



MATH 100-400 Diagnostic Tests

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# MATH 100-400 DIAGNOSTIC TESTS

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The material in this book is the product of the Lord's blessing and many individuals working together at Christian Light.



Harrisonburg, Virginia (540) 434-0750 www.christianlight.org

## Notes for the Teacher

## Why Diagnostic Testing?

Diagnostic tests are specifically designed to determine where a student should begin in the curriculum. Results from these tests give better direction for placement than a student's age or grade level since the course of study varies so much between schools and curricula.

## What Portion of This Booklet Should a Student Complete?

This book covers four levels—100, 200, 300, and 400. Use this chart to decide which ones to work through.

Grade Student is Entering	Work through levels
1	Testing not needed
2	100
3	100-200
4	200-300
5	300-400
6 and up	*Use test booklet 500-800

\*You will need a different booklet to test students in grades 6 and up.

## How Should the Test be Administered?

*Time*. This is not a timed test. Students may take as much time as needed. Give periodic breaks, at least five to ten minutes every hour, and more often for younger students. Ideally, testing should be spread over a two-day period. Test weariness gives unreliable test results.

*Guidance*. You may help students understand instructions; however, do not hint at solutions to problems.

*Calculators.* There are no designated calculator exercises in this booklet. Calculators should not be used.

*Environment.* Inform students that the test is important, but avoid a tense atmosphere. Help them to feel that the best they can do is good enough. Check comfort factors such as lighting and ventilation. Keep noise and other disturbances to a minimum.

*Progress.* For Levels 100-400 (Sunrise Math) Since the different concepts in Sunrise Edition are learned incrementally and spread throughout the year, these levels are tested by entire level, and not by individual LightUnits. The activities in each test are grouped by concepts. The student should begin with the first concept and do as many activities as possible in each group.

## How Do I Score the Test?

Using the answers in the Teacher's Manual, put a mark through the number of each question the student answered incorrectly.

For Levels 100-400 (Sunrise Math). Determine the number of activities done correctly out of the total for each level.

## **How Do I Then Determine Placement?**

- 1. Fill in the **Diagnostic Test Summary** on page vii of this booklet.
- 2. For Level 100 (Sunrise Math). If the student has 40 or more correct answers, he is prepared for Level 200. If less than 40 are correct, the student is not prepared for Level 200, and should do all or most of *Sunrise Math 100* before entering Level 200. If the number correct is in the upper thirties, check the test for an unusual weakness in one or more concepts. If most errors were made in one or two groups, perhaps some remedial work could adequately prepare the child for the next level. However, exercise caution. It is better to build confidence in the child by letting him move quickly through material at an easier level than to frustrate him with a higher level than he can efficiently manage.

**For Level 200 (Sunrise Math).** If the student has 55 or more correct answers, he is prepared for Level 300. If less than 55 are correct, the student is not prepared for Level 300, and should begin with *Sunrise Math Level 200*.

**For Level 300 (Sunrise Math).** If the student has 75 or more correct answers, he is prepared for Level 400. If less than 75 are correct, the student is not prepared for Level 400, and should begin with *Sunrise Math Level 300*.

**For Level 400 (Sunrise Math).** If the student has 64 or more correct answers, he is prepared for Level 500. If less than 64 are correct, the student is not prepared for Level 500 and should begin with *Sunrise Math Level 400*.

If you have questions or need further assistance, feel free to contact CLE by phone (540-434-0750), FAX (540-433-8896), E-mail (homeschool@christianlight.org), or write us at P.O. Box 1212, Harrisonburg, VA 22803-1212.

## **Note About Diagnostic Testing for Sunrise Math**

Sunrise Math uses an incremental approach, teaching various concepts throughout each level, rather than grouping certain math concepts by LightUnit. Therefore, the diagnostic tests evaluate performance by concepts rather than LightUnits.

If a student's score on a particular grade level is below our recommended score for adequate performance in that level, take a second look at the concepts tested. The student may be weak in only one or two areas. For example, algebra and geometry concepts in Sunrise Math tend to be a little more advanced than those in some other curricula. If the student is competent in other areas, and you are willing to spend extra time doing necessary remedial work with this student in the concepts he has never mastered, you are probably safe to place him in that particular level even if his total score is below the one recommended.

A student whose total score is well below the recommended level for proficiency will likely face frustration if he is placed into a higher level than he is ready for. If it is important that he catch up to his "correct" grade level due to his age or parental or school expectations, the teacher may need to provide considerable remedial help. Or the student could work in a previous level, completing several lessons a day and skipping some of the daily review work, which he has already sufficiently mastered. This suggestion might work well for a student with good reading comprehension skills and a strong motivation to learn on his own.

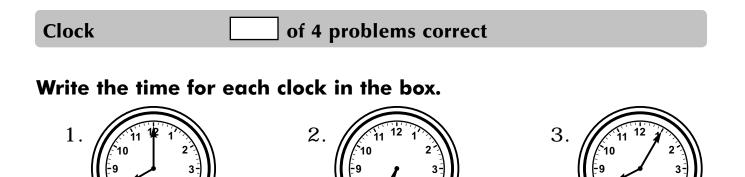
These diagnostic tests are intended to give an accurate picture of what the student has learned and where he likely has weak areas. In order to maximize the satisfaction and ease of use for both student and teacher, school staff should also use their judgment of a student's academic competence and motivation as well as the available time and remedial resources in determining a student's grade placement.

	Diagnostic	: Test Summary	
	Math 100-400		
		Da	te
LightUnit	Amount Correct	LightUnit	Amount Correct
Level 100		Level 300	

Level 400 \_\_\_\_\_

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# Level 100 Sunrise Edition

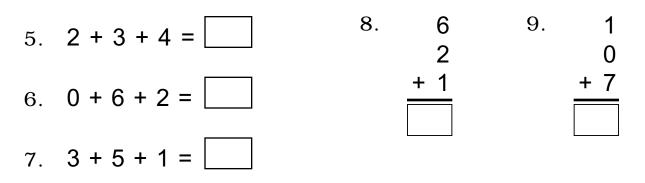


Write how many minutes are in one hour.



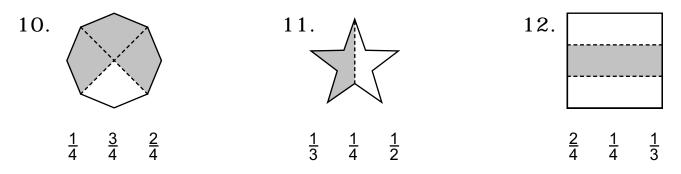


## Write the sums.





## Circle the fraction that shows how many parts are colored.



## Circle the fraction that shows how many mailboxes are open?



## Circle $\frac{1}{2}$ of the butterflies.



## Write the answers.

15. 4 + 4 =  $\frac{1}{2}$  of 8 =

Numbers

of 5 problems correct

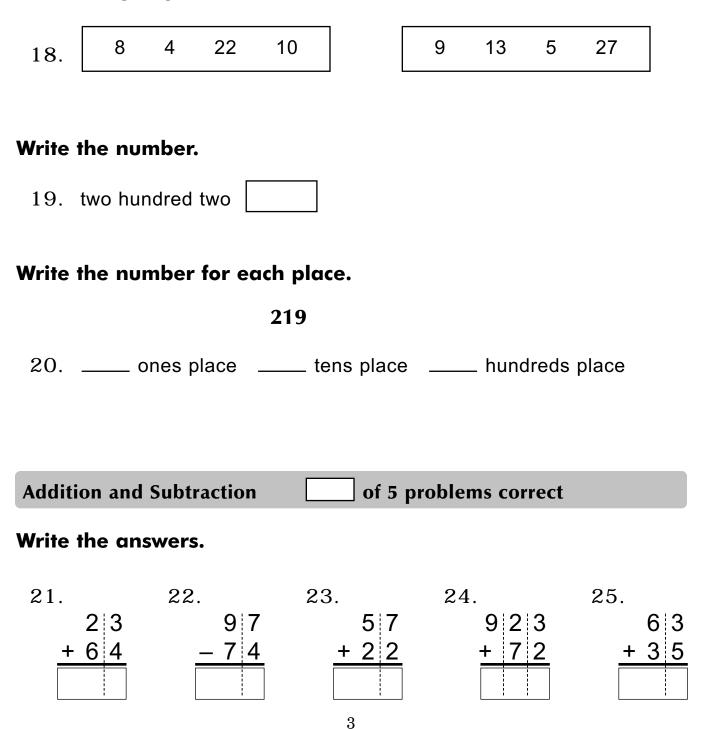
## Write the numbers that come before and after.

16. \_\_\_\_\_ 136 \_\_\_\_\_

## Circle the number that comes between 65 and 75.

17. 22 80 70

## Circle the group of odd numbers.

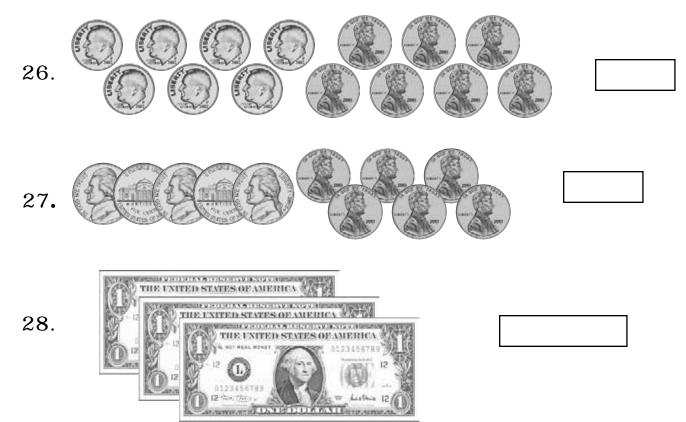


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Level 100 Note to Canadian users: You may substitute numbers 26-28 with exercises in counting Canadian coins in the U.S. amounts shown.

of 6 problems correct Money

## Count the money and write the amount. Use the ¢ sign for numbers 26 and 27. Use the \$ sign for number 28.



## Read and write the amount. Use \$ signs and decimal points.

29. seven dollars and ten cents

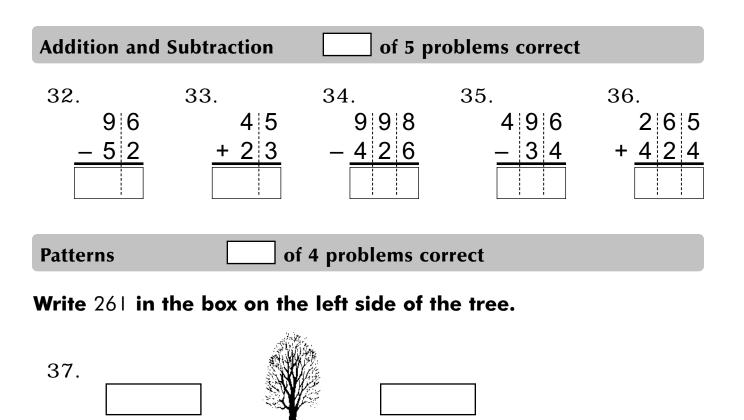
30. three dollars

## Underline the correct way to read \$4.24.

31. four twenty-four

four dot twenty-four

four dollars and twenty-four cents



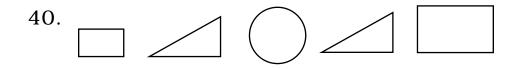
## Write > or <.

2

39.	6	
	_	

| 7

## Color the shapes that are congruent (similar).



**Thinking Skills** 

of 4 problems correct

## Draw the next three shapes in the pattern.



## Write numbers to finish the pattern.

42. 2, 4, 6,

## Circle true or false.

43.	Birds have four legs.	true	false
44.	God loves everyone.	true	false

Addition and	d Subtraction	of 5 p	roblems correct	
45.	46.	47.	48.	49.
89	76	9 8 8	5 7 8	5 4 4
<u>-26</u>	<u>-33</u>	- <u>6 5 3</u>	<u>- 3 4</u>	+ <u>3 5 3</u>

Measurements of 4 problems correct

## Measure the length of the pencil.

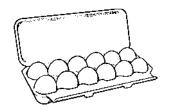


Use your ruler to draw a line 6 centimeters long. Start at the dot.

51.

52. 1 foot equals inches.

53. Circle the group that is a dozen.



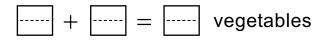




Story Problems	of 7 problems correct
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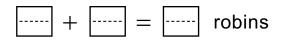


54. "Susan," called Mother. "Please go to the garden and pick 4 green peppers and 2 cucumbers." How many vegetables did Susan pick?





55. "I saw 4 robins yesterday morning on the way to school. This morning I saw 3," said James.How many robins did James see altogether?





56. Janice was very sick. On Tuesday 4 of her friends visited her. On Thursday 6 friends came to visit. How many friends visited Janice on Tuesday and Thursday?

friends



**57.** Mother picked 9 quarts of strawberries. She gave 3 quarts to Mrs. Jones. How many quarts of strawberries did she have left?

----- quarts of strawberries



**58.** Miss Mary put 8 eggs in the incubator. After a few weeks 6 of the eggs hatched. How many eggs did not hatch?

eggs



**59.** Kenneth counted 9 geese on the pond. 4 geese flew to the cornfield. How many geese were left on the pond?

	]			geese
--	---	--	--	-------



60. It snowed all day on Wednesday. George measured 4 inches on the deck. On Friday it snowed 3 more inches. How many inches of snow fell on the two days?



# Level 200 Sunrise Edition

Addition and Subtrac	tion of	6 problems correct	t
Write the answers.			
64 1. <u>+29</u>	82 2. <u>-26</u>	\$2.34 <b>3.</b> <u>+6.83</u>	
\$6.25 <b>4.</b> <u>-2.04</u>	532 13 5. <u>+ 26</u>	6 2 5 <b>6</b> . <u>- 2 3 2</u>	
Calendar	of	5 problems correct	1
Write the answers.			
7. 1 week =	days 8.	1 year = mon	ths
Number the months in c	order.		
<b>9.</b> July	Marc		
January October	Augu Sept		lovember
May	Sept		ecember

5 6

#### Answer the questions from the calendar page. May SMTWTFS 10. Andrew's class planned to take a field trip on 1 2 3 4 the third Tuesday in May. 8 9 10 11 12 13 7 What day is that in May? \_\_\_\_\_ 14 15 16 17 18 19 20 21 22 23 24 25 26 27 **11.** What day of the week is May 30? 28 29 30 31

Clock of 4 problems correct

#### Write the answer.

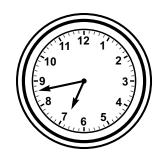
**12.** 1 day = \_\_\_\_\_ hours

\_\_\_\_\_

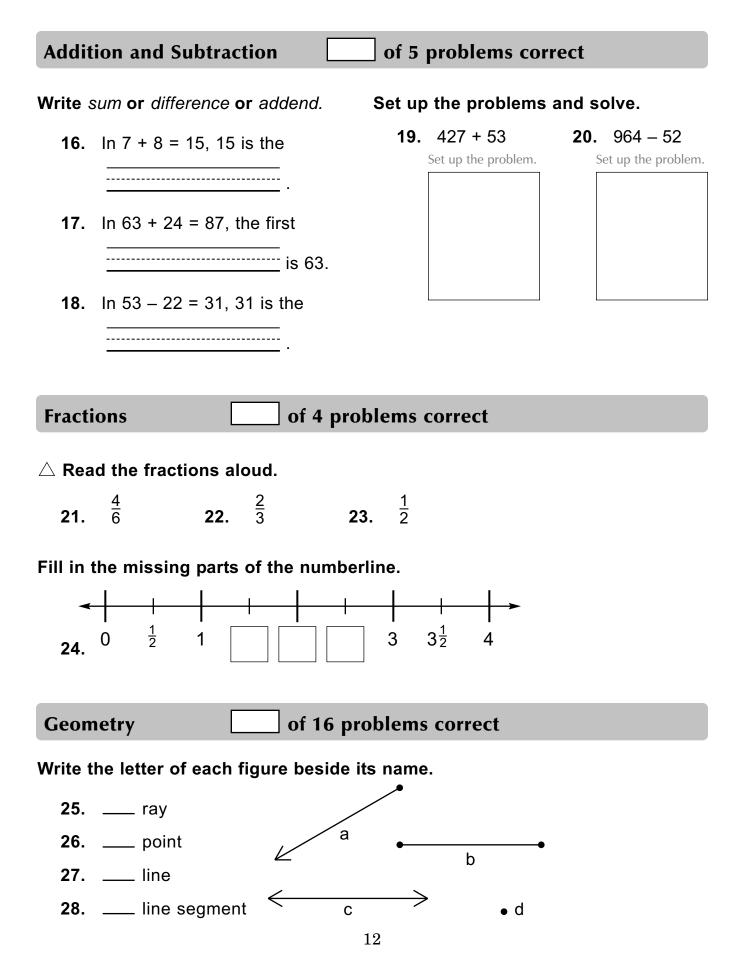
#### Circle the sensible time.

13.	pick flowers for Grandmother	4:30 a.m.	4:30 p.m.
14.	wash the breakfast dishes	7:30 a.m.	7:30 p.m.

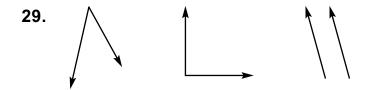
#### Write the time shown on the clock.



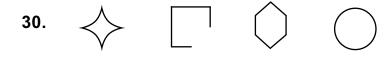
15.



Mark the right angle with a little square.



Circle the polygon.



Use a ruler. Draw a line segment to connect points S and T.

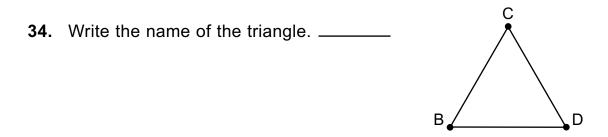
31. S T ●

Use a ruler. Draw a line through points J and K.

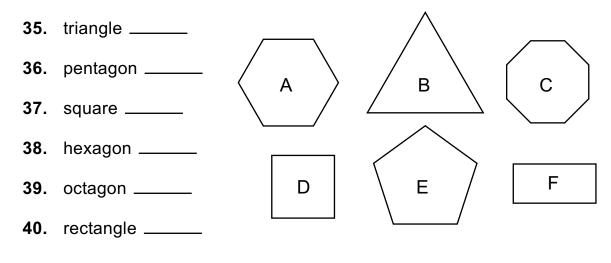
**32.** <sup>J</sup> <sup>K</sup> •

#### Write the correct name on the blank.

**33.** Name the line segment. \_\_\_\_\_



Write the letter of the polygon beside the name of its shape.



Logic

## of 1 problem correct

#### Which is it? Circle the correct picture.

41. It is a fruit.

It is not the third fruit in the row.

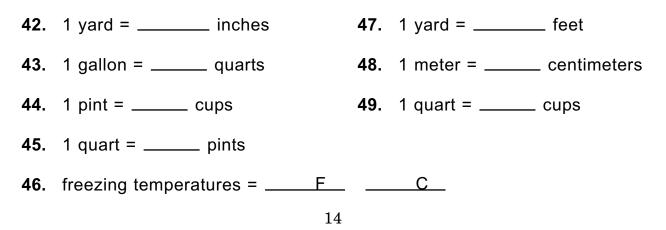
It has many tiny seeds on the outside.



Measures

## of 9 problems correct

#### Write the answers.



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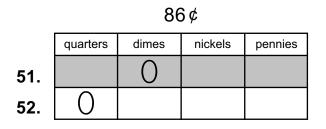
#### Circle which measurement would be best for measuring your classroom.

**50.** meter inch centimeter

## Money of 2 problems correct

#### Show 2 ways to make $86 \phi$ .

#### Do not use the coins that have a zero in the box.



**Multiplication** 

of 8 problems correct

Write the products.

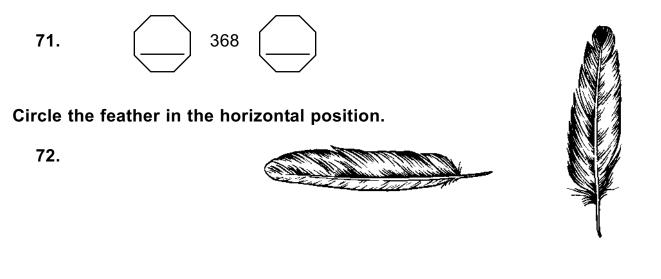
6	1	3	5	16
<b>53</b> . <u>× 2</u>	<b>54</b> . <u>×12</u>	<b>55</b> . <u>×10</u>	<b>56</b> . <u>× 5</u>	<b>57</b> . <u>× 0</u>

#### Circle true or false.

58.	In $4 \times 3 = 12$ , 4 and 3 are the factors.	true	false
59.	In $6 \times 5 = 30$ , 5 is the product.	true	false
60.	Factors can be multiplied in any order.	true	false

Num	bers of 4 problems correct
Finish	counting by 3's.
61.	_315
Finish	counting by 4's.
62.	_420
Write t	he numbers.
63.	four thousand, three
64.	six thousand, twenty-four
Patter	rns/Relations of 8 problems correct
Finish	each number sentence by writing = or $\neq$ .
65.	42 16 <b>66.</b> 17 – 9 8
Write t	he numbers in order from least to greatest.
	726 235 645 213
67.	
Write t	he number that is halfway between these tens or hundreds.
68.	60 <u>70</u> <b>69.</b> 300 <u>400</u>
Write t	he tens that come before and after.
70.	73

#### Write the hundreds that come before and after.





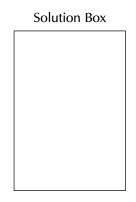
# Solve the story problems in the solution box. Write and label your answer on the blanks.

#### 73-75.

derived from Dynamic Graphics

The Old Testament has 5 books of law, 12 books of history, 5 books of poetry, and 17 books of prophecy. How many books are in the Old Testament?

-----

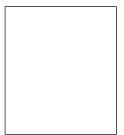


#### 76-78.

The New Testament has 5 books of history and 21 letters. How many more letters are there than books of history?

-----

Solution Box



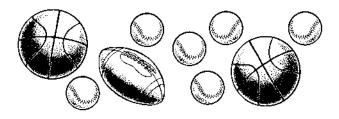
80.

## of 2 problems correct

Randall counted the balls in the closet. There were basketballs, footballs, and softballs.

## Make a tally mark in the correct box for each ball Randall counted.

79.	basketballs		
	footballs		
	softballs		



Color one box for each ball Randall counted.

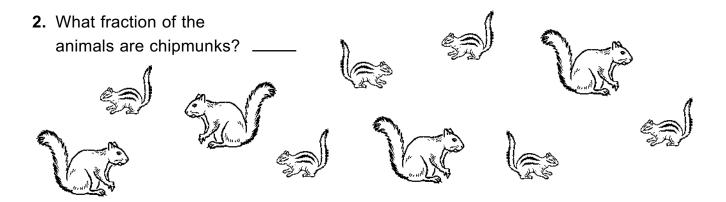
basketballs							
footballs							
softballs							
	1	2	3	4	5	6	7

# Level 300 Sunrise Edition

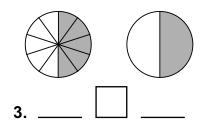


#### Write the fraction.

1. three-fifths \_\_\_\_\_



Write the fractions on the lines. Write = or  $\neq$  in the box.

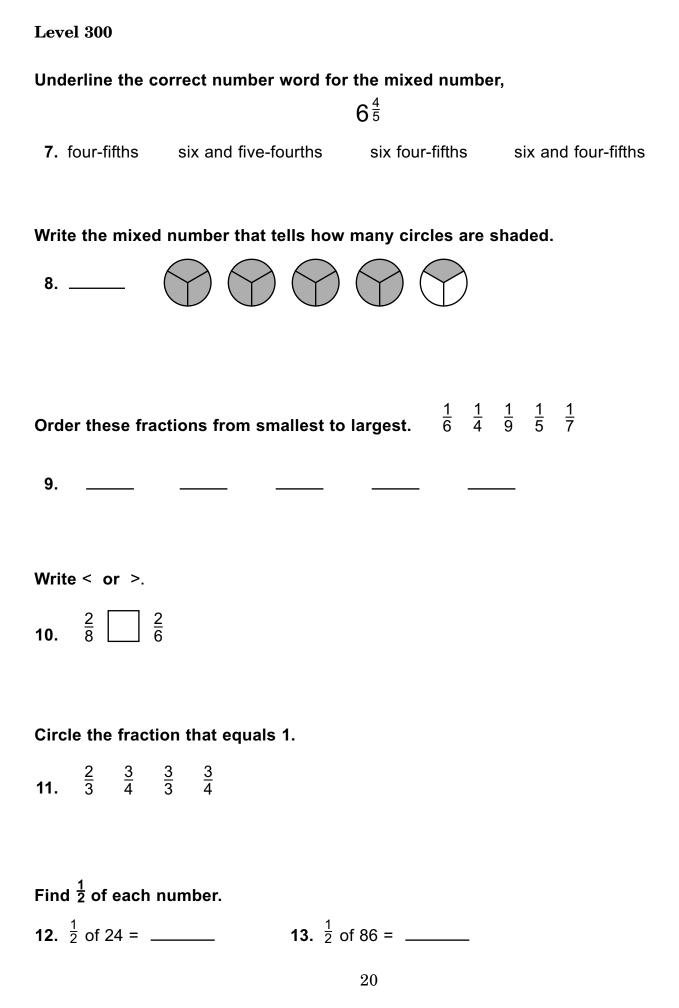


#### Match.

- 4. \_\_\_\_\_ denominator a. the number of parts we have or talk about
- 5. \_\_\_\_ numerator b. bottom number in a fraction

#### Write the fraction.

6. denominator 7, numerator 4 \_\_\_\_\_



Measurement	of 8 problems correct
-------------	-----------------------

Start at point J. Draw a line segment that is  $2\frac{1}{2}$  inches long.

J 14. •

#### Measure to the nearest inch.

<b>15.</b> inches		
		Ì

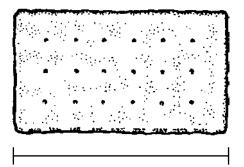
## Measure to the nearest centimeter.

16. \_\_\_\_\_ centimeters



#### Measure with millimeters. Circle the correct answer.

- 17. 50 millimeters
  - 54 millimeters
  - 57 millimeters



**18.** The cracker is \_\_\_\_\_\_ centimeters long.

#### Fill in the blanks.

- **19.** 3 yards = \_\_\_\_\_ feet
- **20.** 2 gallons = \_\_\_\_\_quarts
- 21. 6 meters = \_\_\_\_\_ centimeters

## Decimals

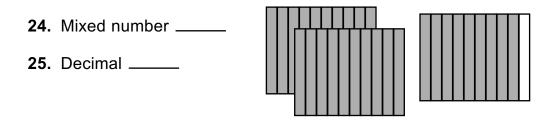
of 6 problems correct

Write the fraction and the decimal that show how much is shaded.

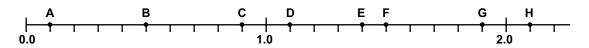
 22. Fraction \_\_\_\_\_

 23. Decimal \_\_\_\_\_

#### Write the mixed number and the decimal to show how much is shaded.



Use the number line to answer the question.



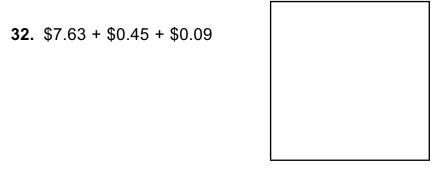
26. What is the decimal number for point E? \_\_\_\_\_

#### Show these numbers from least to greatest.

**27.** 4.3, 4.0, 0.4 \_\_\_\_\_

Addition		of 8 problems o	correct
Find the sums.			2 4
		7,856	5 2
6,354	\$236.73	9 5	7 5
<b>28.</b> <u>+7,967</u>	<b>29.</b> <u>+ 529.58</u>	<b>30</b> . <u>+ 634</u>	<b>31</b> . <u>+ 3 8</u>

## Copy and solve.



#### Find the sums.

1.6	0.3	9.1
<b>33.</b> <u>+6.9</u>	<b>34.</b> <u>+ 0 . 9</u>	<b>35.</b> <u>+0.6</u>

Numbers		of 16 problems co	rrect			
Put commas where t	Put commas where they belong.					
<b>36.</b> 654123	<b>37.</b> 3820	<b>38.</b> 50005	<b>39.</b> 300000			
Write the numbers.						
<b>40.</b> four hundred twenty thousand, six hundred four						
<b>41.</b> seventy-two thousand, thirty-six						
<b>42.</b> eight hundred two thousand, six hundred forty						

## Write the correct digit from 678,542.

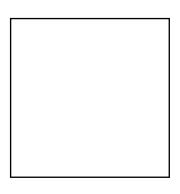
<b>43.</b> ones place	<b>46.</b> ten thousands place
44. hundreds place	<b>47.</b> tens place
<b>45.</b> hundred thousands place	48. thousands place
<ul><li>Fill in the blanks.</li><li>49. Six and nine-tenths has tenths and .</li></ul>	ones.
Write the decimals.	

- 50. nine and two-tenths \_\_\_\_\_
- 51. four-tenths \_\_\_\_\_

Subtraction	of 9 problems correct					
Subtract.						
6,583	409	503	11,432			
<b>52.</b> <u>-2,996</u>	<b>53</b> . <u>-236</u>	<b>54</b> . <u>-437</u>	<b>55.</b> <u>- 7,917</u>			
\$7.00	4,006	2,406	4.3			
<b>56.</b> <u>-3.56</u>	<b>57.</b> <u>-2,368</u>	<b>58.</b> <u>- 734</u>	<b>59.</b> <u>-1.9</u>			

Copy and solve.

**60.** \$603.64 - \$43.29



**Metric Measures** 

of 5 problems correct

Measure the length of the line segment with centimeters. Then give its length in millimeters.

61. \_\_\_\_ cm 62. \_\_\_\_ mm

Fill in the blanks.

- **63.** 6 cm = \_\_\_\_ mm
- **64.** 3 mm = \_\_\_\_ cm
- 65. \_\_\_\_\_ cm + 3 mm = 73 mm or \_\_\_\_\_ cm

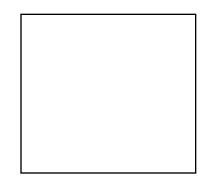
Multiplication	of 12 problems correct
marcipheation	

#### Multiply.

7	79		9	0		3	4
66. <u>×</u>	6	67.	×	5	68.	×	2

#### Copy and solve.

**69.** 36 × 8



#### Match.

<b>70.</b> product	a. one of the numbers multiplied
<b>71.</b> factor	b. the answer to multiplication

#### Circle true or false.

72. Factors can be multiplied in either order but the product will be the same.

true false

#### Write the products.

**73.** 6 × 40 = \_\_\_\_\_
 **75.** 70 × 9 = \_\_\_\_\_

 **74.** 8 × 700 = \_\_\_\_\_
 **76.** 900 × 6 = \_\_\_\_\_

#### Circle the row which shows multiples of 7.

77.	4	8	12	16	20	24	28	32	36	40	
	7	14	21	28	35	42	49	56	63	70	

**Level 300** Rounding of 14 problems correct Write the tens that come before and after. Circle the nearest ten. **78**. \_\_\_\_\_ 45 \_\_\_\_\_ **79**. \_\_\_\_\_ 13 \_\_\_\_\_ **80**. \_\_\_\_\_ 66 \_\_\_\_\_ Write the hundreds that come before and after. Circle the nearest hundred. **81**. \_\_\_\_\_ 593 \_\_\_\_\_ **82**. \_\_\_\_\_ 650 \_\_\_\_\_ **83**. \_\_\_\_\_ 435 \_\_\_\_\_ Round to the nearest ten. **85.** 82 \_\_\_\_\_ **84.** 45 \_\_\_\_\_ 86. 26 \_\_\_\_\_ Round to the nearest hundred. **87.** 542 \_\_\_\_\_ **88.** 853 \_\_\_\_\_ **89.** 675 \_\_\_\_\_ Write the number that is halfway between the tens or hundreds. **90.** 600 \_\_\_\_\_ 700 **91.** 70 \_\_\_\_\_ 80

29

## of 15 parts correct

**92-94.** Mr. Roberts bought 60 bushels of apples to sell in his community. He had orders for 47 bushels. After the orders were filled, how many bushels did he have left?

**Problem Solving** 

- **95-97.** Alaska, the largest state in the United States, has an area of 586,400 square miles. Rhode Island, the smallest state, has an area of 1,214 square miles. How much larger is Alaska than Rhode Island?
- **98-100.** Midwest Bible School had 126 students the first term. For second term there were 37 more students than the first term. How many students attended Midwest Bible School the second term?
- 101-103. Robert sold ears of corn in bundles of 4. He had 15 bundles. How many ears of corn did he sell?

**My Work Space** 

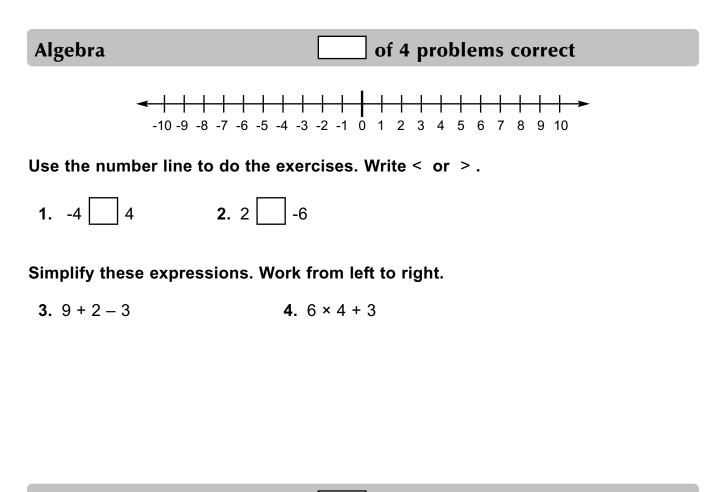
**My Work Space** 

**My Work Space** 

**My Work Space** 

**104-106.** Mr. Layman had 24 customers in his shop on Tuesday and 36 on Wednesday. On those 2 days, 9 customers did not buy anything. How many customers bought items from Mr. Layman's shop on those two days? **My Work Space** 

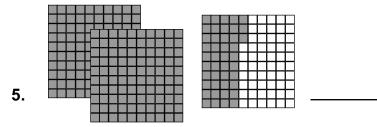
# Level 400 Sunrise Edition



Decimals

of 8 problems correct

#### Write the decimal for the picture.



Fill in the blanks with ones, tenths, or hundredths.

6. 4.25 has 2 \_\_\_\_\_, 4 \_\_\_\_\_, and 5 \_\_\_\_\_.

#### Order these decimals from greatest to least.

**7.** 4.48 4.73 4.39 4.82

\_\_\_\_\_ \_\_\_\_

#### Round to the nearest whole number.

**8.** 2.3 \_\_\_\_\_ **9.** 5.6 \_\_\_\_\_ **10.** 4.5 \_\_\_\_\_

#### Add or subtract.

0.23	
4.16	43.12
<b>11.</b> <u>+23.15</u>	<b>12.</b> <u>-</u> 4.36

#### Find the quotients. Check the third problem by multiplying.

<b>13.</b> 6)59	<b>14.</b> 4)84	<b>15</b> . 8)652	Check 16.

#### Find the quotient. Write the remainder as a fraction.

## **17.** 4)279

Factors	of 8 problems correct
---------	-----------------------

#### Underline the number that has . . .

<b>18.</b> 2 as a factor.	133	128	43
<b>19.</b> 5 as a factor.	326	23	140
<b>20.</b> 10 as a factor.	140	152	63
<b>21.</b> 3 as a factor.	36	92	25
<b>22.</b> 9 as a factor.	130	42	126
<b>23.</b> 7 as a factor.	24	28	39

#### Circle the common factors of each pair of numbers.

24. 8 and 32	25. 7 and 28
2, 4, 8	2, 4, 8
3, 6, 9	3, 6, 9
5, 10	5, 10
7	7

# Fractions of 15 problems correct

#### Follow the directions.

**26.** Circle the improper fraction. $\frac{3}{8}$  $\frac{9}{6}$  $2\frac{2}{4}$ **27.** Change  $5\frac{2}{3}$  to an improper fraction.\_\_\_\_\_**28.** Change  $\frac{7}{4}$  to a mixed number.\_\_\_\_\_

#### Solve. Write all answers in simplest form.



	3 <del>7</del>	$3\frac{4}{5}$	
33.	+ $6\frac{5}{18}$	<b>34.</b> $+ 2\frac{3}{5}$	

# Find the answers. 35. $\frac{1}{3}$ of 24 \_\_\_\_\_\_ 36. $\frac{1}{4}$ of 48 \_\_\_\_\_\_

Multiply the numerators and denominators by 5 to make equal fractions.

**37.**  $\frac{1}{4} =$ \_\_\_\_\_ **38.**  $\frac{2}{9} =$ \_\_\_\_\_

#### Write the missing numerators.

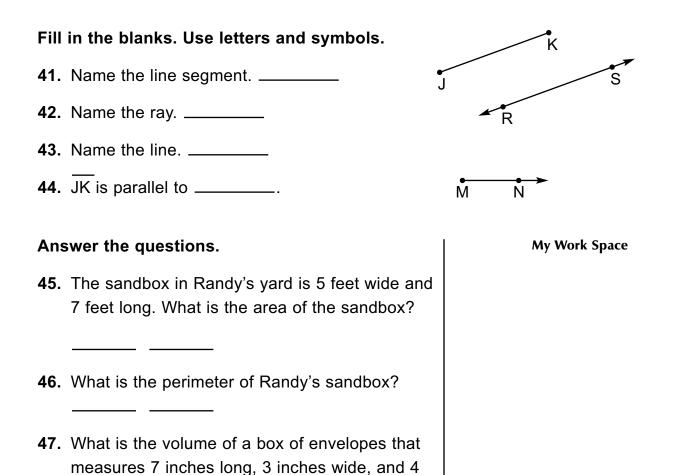
**39.**  $\frac{2}{7} = \frac{1}{14}$  **40.**  $\frac{3}{5} = \frac{1}{20}$ 

### Geometry

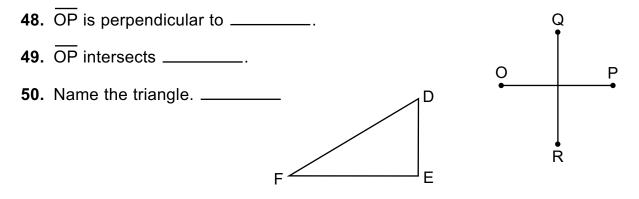
inches high?

\_\_\_\_\_

# of 15 problems correct



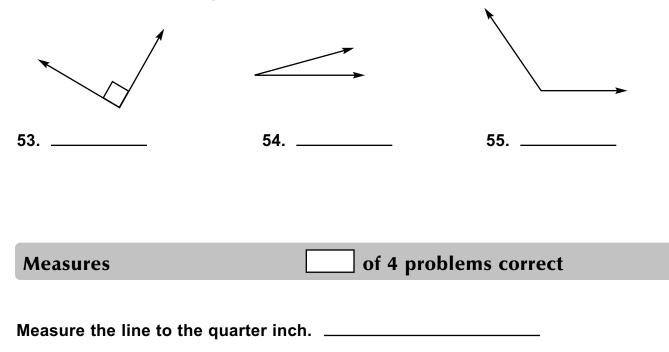
Fill in the blanks. Use letters and symbols.



#### Fill in the blanks.

- **51.** If the radius of a circle is 6 inches, the diameter is \_\_\_\_\_ inches.
- **52.** If the diameter of a circle is 4 meters, the radius is \_\_\_\_\_ meters.

Write acute, obtuse, or right on the line below each angle.



**56.** \_\_\_\_\_ in

#### Finish these function charts.

_	_	
5		

feet	3	6		12		21	
yards	1		6		3		8

58.

8.	quarts	4	8		12		32	
	gallons	1		4		6		5

59.	centimeters	100		700		500	
	meters	1	8		4		9

Mult	iplicati	on			of 7 problems correct					
Write the products. $\$ 2.24$ $34$ $42$ $326$ 60. $\times$ 9       61. $\times$ 2       62. $\times$ $\times$ 30       63. $\times$ $52$ 64.										16
60. <u>×</u>	9	61.	<u>×                                    </u>	62	<u>2</u> . <u>× 3 0</u>	ť	53. <u>× 5</u>	<u> </u>	64. <u>× 2</u> 8	<u>8 1</u>
Write d	the prod	ueto								
write	the prod	12	12	12	12	12	12	12	12	12
65.	× 2	× 8	× 9	<u>×11</u>	× 3	× 6	× 7	×12	× 5	× 4

Write the products.

	11	11	11	11	11	11	11	11	11	11
66.	× 4	× 6	× 2	× 11	× 7	× 3	×10	× 9	× 5	× 8

Numbers

of 5 problems correct

#### Write words for the number.

**67.** 125,316,002 \_\_\_\_\_

#### Write the numbers for the words.

**68.** three hundred twenty-three million, four hundred thirteen thousand, four hundred forty-six

**69.** four hundred six million, two thousand, forty \_\_\_\_\_\_

#### Fill in the blanks with the correct digit.

- **70.** In 503,214,867, \_\_\_\_\_ is in the hundred millions place.
- **71.** In 503,214,867, \_\_\_\_\_ is in the millions place.

Ratios	of 2 problems correct
--------	-----------------------

#### Write the ratios.

- **72.** The chocolate candy bar was 10 cm long and 5 cm wide. What was the ratio of length to width? \_\_\_\_\_
- 73. Randy caught 4 trout and 5 bass. What was the ratio of bass to trout? \_\_\_\_\_

Rounding / Estimating of 14 problems correct
Round to the nearest dollar.
<b>74.</b> \$24.53 <b>75.</b> \$3.50 <b>76.</b> \$16.23
Round to the nearest 10 to estimate.
<b>77.</b> estimate 46 – 15
= =
Round to the nearest 100 to estimate.
<b>78.</b> estimate 236 + 651
+ =
Round to the nearest 10.
<b>79.</b> 256 <b>80.</b> 323 <b>81.</b> 294 <b>82.</b> 395
Round to the nearest 100.
<b>83.</b> 3,625 <b>84.</b> 550 <b>85.</b> 3,962
39

#### Round to the nearest hundred, then multiply.

86. estimate 240 × 635

\_\_\_\_\_ × \_\_\_\_ = \_\_\_\_

#### Round to the nearest ten, then multiply.

**87.** estimate 56 × 45

\_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_

Subtraction

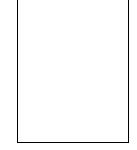
of 4 problems correct

#### Write the differences.

	\$36.00	50,003	4,593
88.	- 4.23	<b>89.</b> <u>- 4,236</u>	<b>90.</b> <u>- 657</u>

Copy and solve.

**91.** \$43.26 - 17.06



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