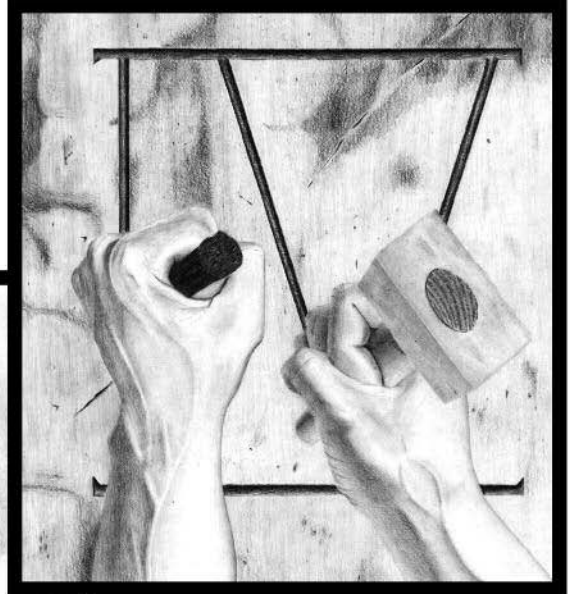
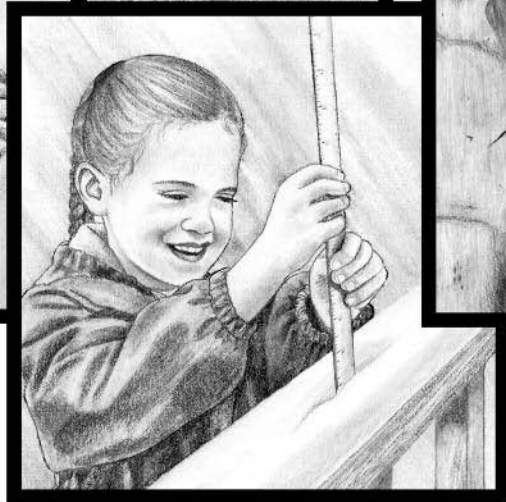
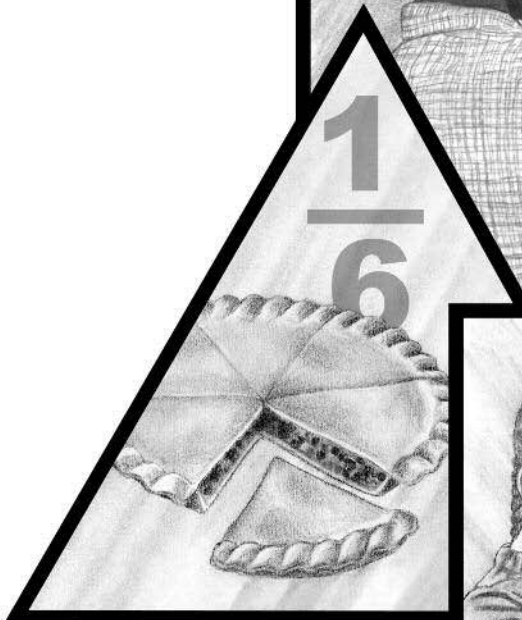
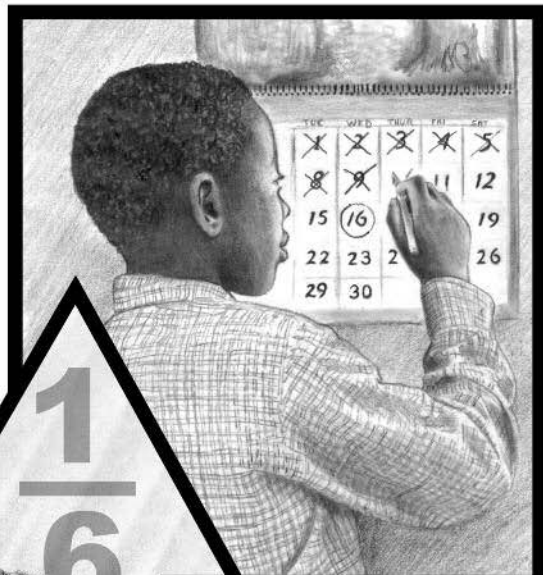


Mathematics

Diagnostic Tests 100-400



Sunrise Edition



Name _____



MATH 100-400 Diagnostic Tests

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Christian Light Publications, Inc., Harrisonburg, VA 22802

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Printed in the United States of America

2005 Edition

Second Printing, 2007

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 Publications.



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Notes for the Teacher

Note!

As we produce new Math curriculum, some diagnostic tests become outdated. To ensure accurate testing, use up-to-date diagnostic tests.

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?

Use the *Diagnostic Test Summary* page found on the next page of this book.

1. Fill in the **Diagnostic Test Summary** on page vi. If you are enrolled with Homeschool Plus at Christian Light Education, also fill in the second summary sheet on page viii. Tear out this perforated sheet and send it to Homeschool Plus and retain a copy for yourself. If you are not enrolled with Homeschool Plus, ignore the extra summary sheet.
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 (homestudy @clp.org), or write us at P.O. Box 1212, Harrisonburg, VA 22803.



Diagnostic Test Summary

Math 100-400

Name _____ Date _____

Parents _____

LightUnit	Amount Correct	LightUnit	Amount Correct
-----------	----------------	-----------	----------------

Level 100 _____

Level 300 _____

Level 200 _____

Level 400 _____

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?

Use the *Diagnostic Test Summary* page found on the next page of this book.

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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 (homestudy @clp.org), or write us at P.O. Box 1212, Harrisonburg, VA 22803.



Diagnostic Test Summary

Math 100-400

Name _____ Date _____

Parents _____

LightUnit	Amount Correct	LightUnit	Amount Correct
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Level 100 _____

Level 300 _____

Level 200 _____

Level 400 _____

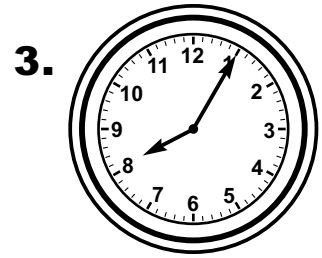
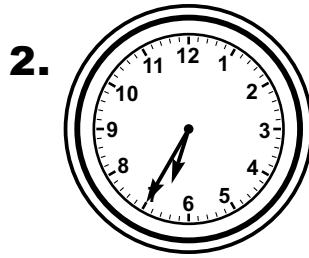
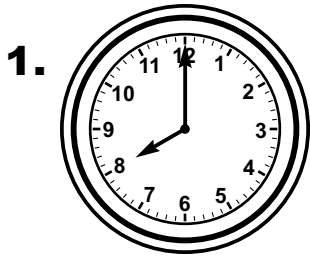
Level 100

Sunrise Edition

Clock

of 4 problems correct

Write the time for each clock.



Write how many minutes are in one hour.

4. minutes

Addition and Subtraction

of 5 problems correct

Write the sums.

5. $2 + 3 + 4 =$

6. $0 + 6 + 2 =$

7. $3 + 5 + 1 =$

8.
$$\begin{array}{r} 6 \\ 2 \\ + 1 \\ \hline \hline \end{array}$$

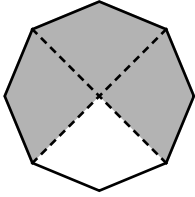
9.
$$\begin{array}{r} 1 \\ 0 \\ + 7 \\ \hline \hline \end{array}$$

Fractions

of 6 problems correct

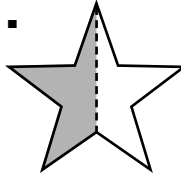
Mark the circle to show the colored part.

10.



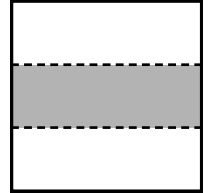
- $\frac{1}{4}$ $\frac{3}{4}$ $\frac{2}{4}$

11.



- $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{2}$

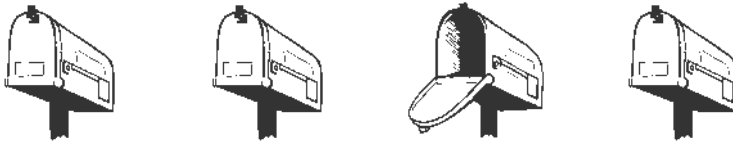
12.



- $\frac{2}{4}$ $\frac{1}{4}$ $\frac{1}{3}$

What part of the mailboxes are open?

13.



- $\frac{2}{3}$ $\frac{1}{4}$ $\frac{3}{4}$

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

14.



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

Numbers

of 5 problems correct

Write the numbers that come before and after.

16. _____ 136 _____

Mark the number that comes between 65 and 75.

17. 22 80 70

Circle the group of odd numbers.

18.

8	4	22	10
---	---	----	----

9	13	5	27
---	----	---	----

Write the number.

19. two hundred two

Write the number for each place.

219

20. _____ ones place _____ tens place _____ hundreds place

Addition and Subtraction of 5 problems correct

Write the answers.

21.

$$\begin{array}{r} 23 \\ + 64 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 97 \\ - 74 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 57 \\ + 22 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 923 \\ + 72 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 63 \\ + 35 \\ \hline \end{array}$$

Money

of 6 problems correct

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

26.



27.



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 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 Subtraction of 5 problems correct

45.
$$\begin{array}{r} 89 \\ - 26 \\ \hline \end{array}$$

46.
$$\begin{array}{r} 76 \\ - 33 \\ \hline \end{array}$$

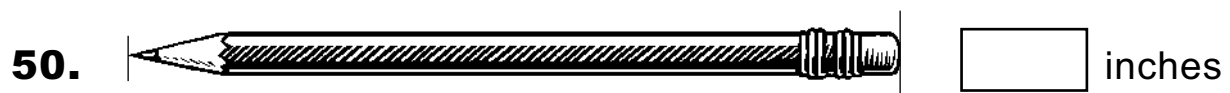
47.
$$\begin{array}{r} 988 \\ - 653 \\ \hline \end{array}$$

48.
$$\begin{array}{r} 578 \\ - 34 \\ \hline \end{array}$$

49.
$$\begin{array}{r} 544 \\ + 353 \\ \hline \end{array}$$

Measurements of 4 problems correct

Measure the length of the pencil.

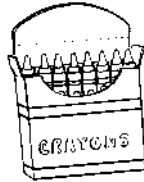
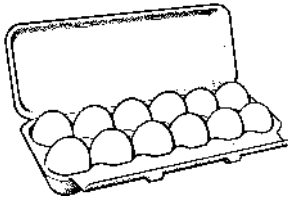


Use your ruler to draw a line 6 centimeters long. Start at the dot.



52. 1 foot equals inches.

53. Circle the group that is a dozen.



Story Problems of 7 problems correct



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

vegetables



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?

robins

Level 100



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?

 inches

Level 200

Sunrise Edition

Addition and Subtraction of 6 problems correct

Write the answers.

$$1. \begin{array}{r} 64 \\ + 29 \\ \hline \end{array}$$

$$2. \begin{array}{r} 82 \\ - 26 \\ \hline \end{array}$$

$$3. \begin{array}{r} \$2.34 \\ + 6.83 \\ \hline \end{array}$$

$$4. \begin{array}{r} \$6.25 \\ - 2.04 \\ \hline \end{array}$$

$$5. \begin{array}{r} 532 \\ 13 \\ + 26 \\ \hline \end{array}$$

$$6. \begin{array}{r} 625 \\ - 232 \\ \hline \end{array}$$

Calendar of 5 problems correct

Write the answers.

7. 1 week = _____ days

8. 1 year = _____ months

Number the months in order.

9. _____ July

_____ March

_____ June

_____ January

_____ August

_____ November

_____ October

_____ September

_____ April

_____ May

_____ February

_____ December

Answer the questions from the calendar page.

10. Andrew's class planned to take a field trip on the third Tuesday in May.

What day is that in May? _____

11. What day of the week is May 30?

May						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Clock

of 4 problems correct

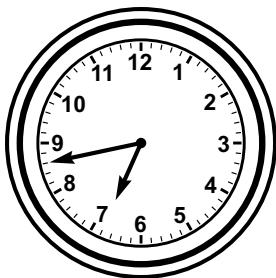
Write the answer.

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 for the clock.



15. _____

Addition and Subtraction of 5 problems correct

Write *sum* or *difference* or *addend*.

Set up the problems and solve.

16. In $7 + 8 = 15$, 15 is the

_____ .
 _____ .
 _____ .

17. In $63 + 24 = 87$, the first

_____ is 63.
 _____ .
 _____ .

18. In $53 - 22 = 31$, 31 is the

_____ .
 _____ .
 _____ .

19. $427 + 53$

Set up the problem

20. $964 - 52$

Set up the problem

Fractions of 4 problems correct

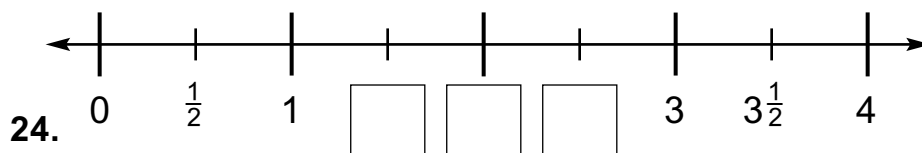
△ Read the fractions aloud.

21. $\frac{4}{6}$

22. $\frac{2}{3}$

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

Fill in the missing parts of the numberline.



Geometry of 16 problems correct

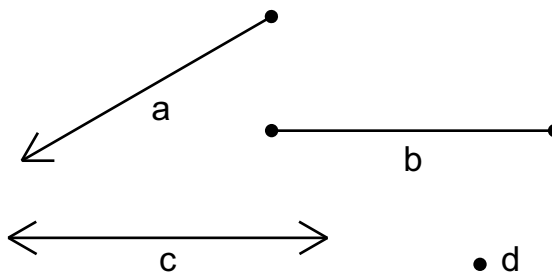
Write the letter of each figure beside its name.

25. _____ ray

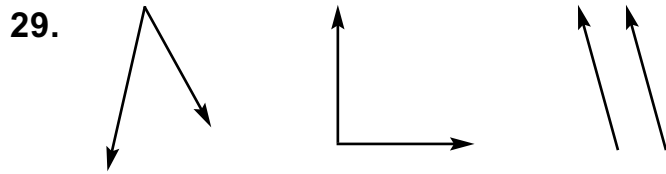
26. _____ point

27. _____ line

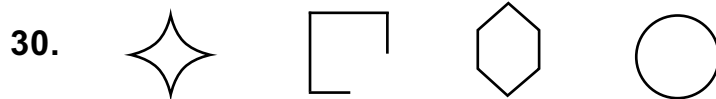
28. _____ line segment



Mark the right angle with a little square.



Circle the polygon.



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



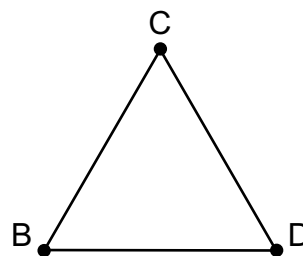
Use a ruler. Draw a line through points J and K.



Write the correct name on the blank.



34. Write the name of the triangle. _____



Level 200

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

35. triangle _____

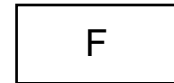
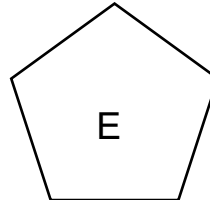
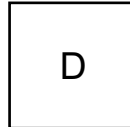
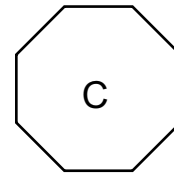
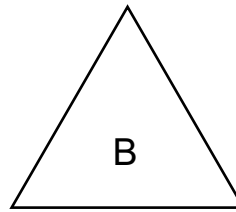
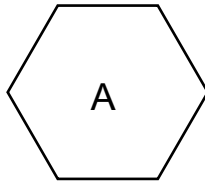
36. pentagon _____

37. square _____

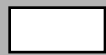
38. hexagon _____

39. octagon _____

40. rectangle _____



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.

42. 1 yard = _____ inches

43. 1 gallon = _____ quarts

44. 1 pint = _____ cups

45. 1 quart = _____ pints

46. freezing temperatures = _____ F _____ C

47. 1 yard = _____ feet

48. 1 meter = _____ centimeters

49. 1 quart = _____ cups

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¢.

Use only coins that are not marked with zero.

86¢

	quarters	dimes	nickels	pennies
51.		0		
52.	0			

Multiplication of 8 problems correct

Write the products.

53. $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$

54. $\begin{array}{r} 1 \\ \times 12 \\ \hline \end{array}$

55. $\begin{array}{r} 3 \\ \times 10 \\ \hline \end{array}$

56. $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$

57. $\begin{array}{r} 16 \\ \times 0 \\ \hline \end{array}$

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**

Numbers

of 4 problems correct

Finish counting by 3's.

61. 3 _____ _____ _____ 15 _____ _____ _____ _____

Finish counting by 4's.

62. 4 _____ _____ _____ 20 _____ _____ _____ _____

Write the numbers.

63. four thousand, three _____

64. six thousand, twenty-four _____

Patterns/Relations

of 8 problems correct

Finish each number sentence by writing = or \neq .

65. $42 \square 16$

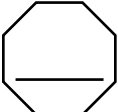
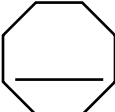
66. $17 - 9 \square 8$

Write the numbers in order from least to greatest.

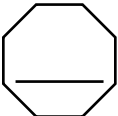
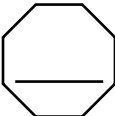
726 235 645 213

67. _____

Write the tens that come before and after.

68.  73 

Write the hundreds that come before and after.

69.  368 

Write the number that is halfway between these tens or hundreds.

70. 60 _____ 70

71. 300 _____ 400

Circle the feather in the horizontal position.

72.



Problem Solving

of 6 parts correct

Solve the story problems. Show your work and label your answer.

73-75.

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?

Solution

76-78.

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

Solution

Graph and Statistics

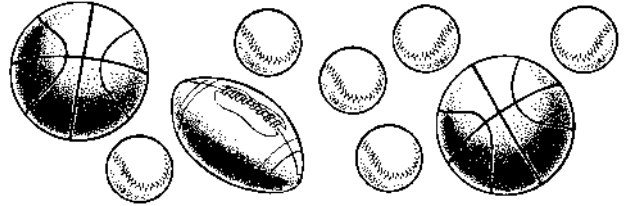
of 2 problems correct

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

Make a tally mark for each ball Randall counted.

79.

basketballs
footballs
softballs



Color one box for each ball Randall counted.

80.

basketballs							
footballs							
softballs							
	1	2	3	4	5	6	7

Level 300

Sunrise Edition

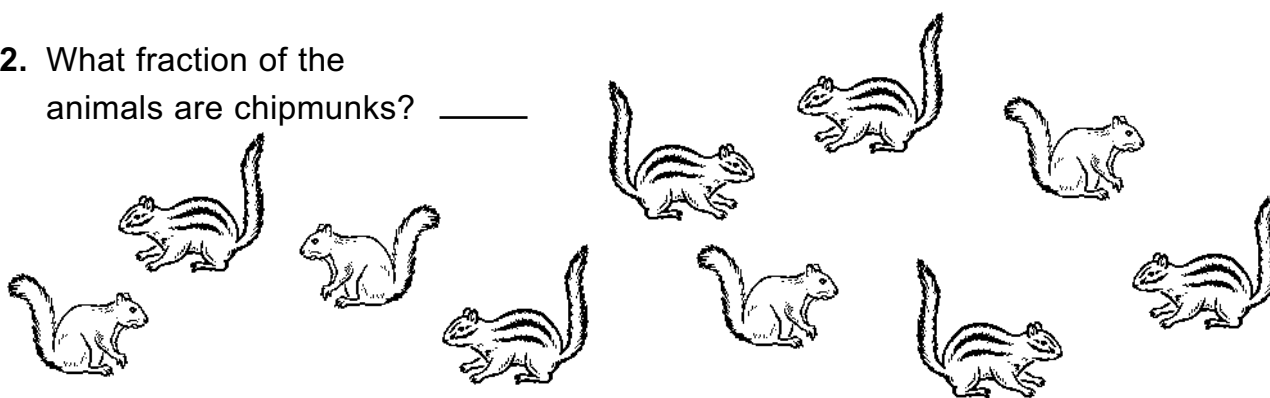
Fractions

of 13 problems correct

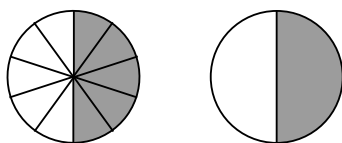
Write the fraction.

1. three-fifths _____

2. What fraction of the animals are chipmunks? _____



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



3. _____ _____

Write the fraction.

4. denominator 7, numerator 4 _____

Match.

5. _____ denominator

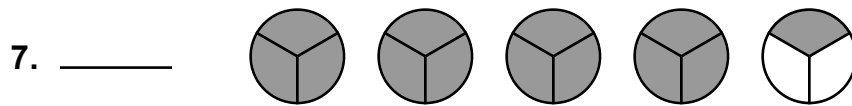
a. the number of parts we have or talk about

6. _____ numerator

b. bottom number in a fraction

Level 300

Write the mixed number that tells how many circles are shaded.



Underline the correct number word for the mixed number,

$$6\frac{4}{5}$$

8. four-fifths six and five-fourths six four-fifths six and four-fifths

Order these fractions from smallest to largest. $\frac{1}{6}$ $\frac{1}{4}$ $\frac{1}{9}$ $\frac{1}{5}$ $\frac{1}{7}$

9. _____

Write < or >.

10. $\frac{2}{8}$ $\frac{2}{6}$

Circle the fraction that equals 1.

11. $\frac{2}{3}$ $\frac{3}{4}$ $\frac{3}{3}$ $\frac{3}{4}$

Find $\frac{1}{2}$ of each number.

12. $\frac{1}{2}$ of 24 = _____

13. $\frac{1}{2}$ of 86 = _____

Measurement

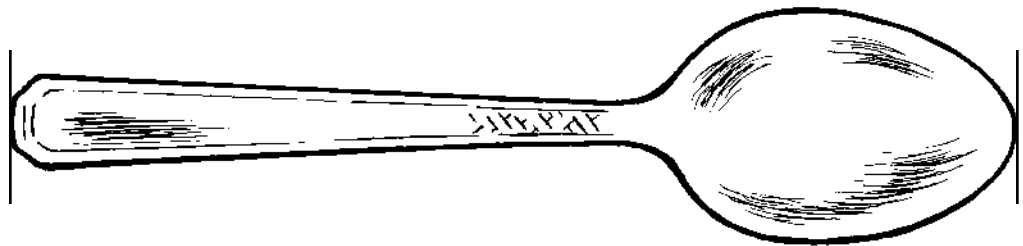
of 8 problems correct

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

14. J
•

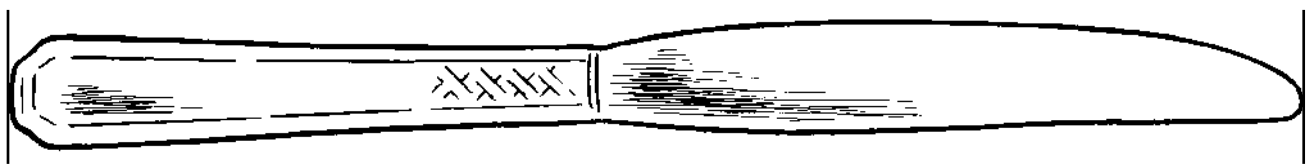
Measure to the nearest inch.

15. _____ inches



Measure to the nearest centimeter.

16. _____ centimeters



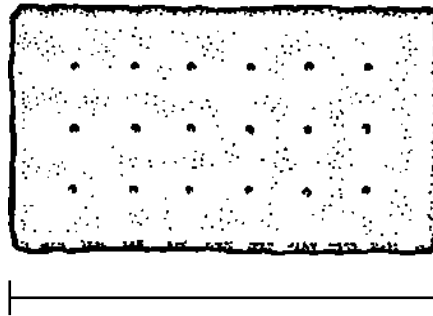
Level 300

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

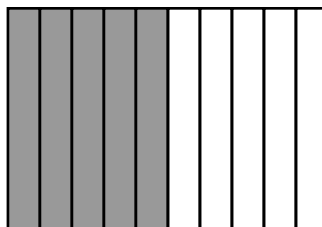
Decimals

of 6 problems correct

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

22. Fraction _____

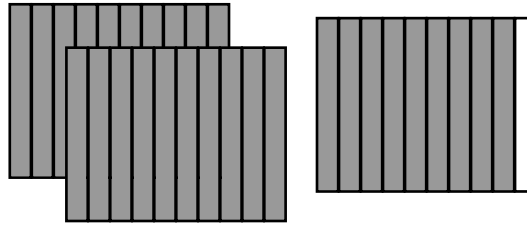
23. Decimal _____



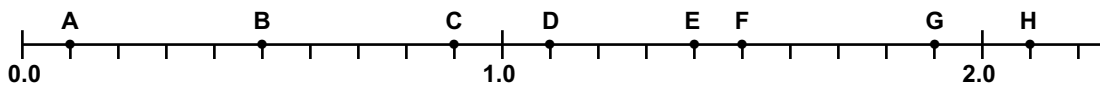
Write the mixed number and the decimal to show how much is shaded.

24. Mixed number _____

25. Decimal _____



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 correct

Find the sums.

28.
$$\begin{array}{r} 6,354 \\ + 7,967 \\ \hline \end{array}$$

29.
$$\begin{array}{r} \$236.73 \\ + 529.58 \\ \hline \end{array}$$

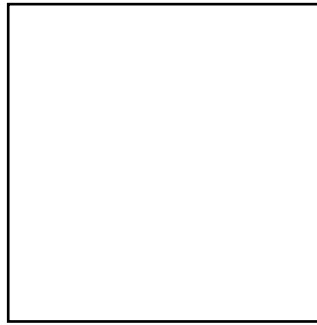
30.
$$\begin{array}{r} 7,856 \\ 95 \\ + 634 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 24 \\ 52 \\ 75 \\ + 38 \\ \hline \end{array}$$

Level 300

Copy and solve.

32. $\$7.63 + \$0.45 + \$0.09$



Find the sums.

33. $\begin{array}{r} 1.6 \\ + 6.9 \\ \hline \end{array}$

34. $\begin{array}{r} 0.3 \\ + 0.9 \\ \hline \end{array}$

35. $\begin{array}{r} 9.1 \\ + 0.6 \\ \hline \end{array}$

Numbers

of 16 problems correct

Put commas where they belong.

36. 654123

37. 3820

38. 50005

39. 300000

Write the numbers.

40. four hundred twenty thousand, six hundred four _____

41. seventy-two thousand, thirty-six _____

42. eight hundred two thousand, six hundred forty _____

Write the correct digit from 678,542.

43. ones place _____

46. ten thousands place _____

44. hundreds place _____

47. tens place _____

45. hundred thousands place _____

48. thousands place _____

Fill in the blanks.

49. Six and nine-tenths has _____ tenths and _____ ones.

Write the decimals.

50. nine and two-tenths _____

51. four-tenths _____

Subtraction

of 9 problems correct

Subtract.

$$52. \begin{array}{r} 6,583 \\ -2,996 \\ \hline \end{array}$$

$$53. \begin{array}{r} 409 \\ -236 \\ \hline \end{array}$$

$$54. \begin{array}{r} 503 \\ -437 \\ \hline \end{array}$$

$$55. \begin{array}{r} 11,432 \\ -7,917 \\ \hline \end{array}$$

$$56. \begin{array}{r} \$7.00 \\ -3.56 \\ \hline \end{array}$$

$$57. \begin{array}{r} 4,006 \\ -2,368 \\ \hline \end{array}$$

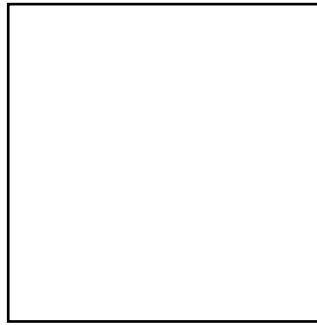
$$58. \begin{array}{r} 2,406 \\ -734 \\ \hline \end{array}$$

$$59. \begin{array}{r} 4.3 \\ -1.9 \\ \hline \end{array}$$

Level 300

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. $6 \text{ cm} = \text{_____ mm}$

64. $3 \text{ mm} = \text{_____ cm}$

65. _____ cm + 3 mm = 73 mm or _____ cm

Multiplication

of 12 problems correct

Multiply.

66.
$$\begin{array}{r} 79 \\ \times 6 \\ \hline \end{array}$$

67.
$$\begin{array}{r} 90 \\ \times 5 \\ \hline \end{array}$$

68.
$$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$$

Copy and solve.

69. 36×8



Match.

70. ____ product

a. one of the numbers multiplied together

71. ____ 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. $6 \times 40 =$ _____

75. $70 \times 9 =$ _____

74. $8 \times 700 =$ _____

76. $900 \times 6 =$ _____

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.

84. 45 _____

85. 82 _____

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

Problem Solving

 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?

My Work Space

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?

My Work Space

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?

My Work Space

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

Level 300

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?

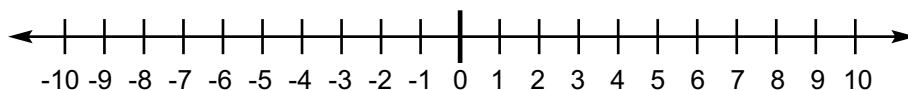
My Work Space

Level 400

Sunrise Edition

Algebra

of 4 problems correct



Use the number line to do the exercises. Write $<$ or $>$.

1. -4 4

2. 2 -6

Simplify these expressions. Work from left to right.

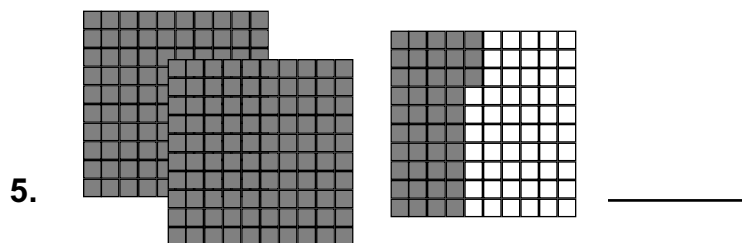
3. $9 + 2 - 3$

4. $6 \times 4 + 3$

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 _____.

Level 400

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.

$$\begin{array}{r} 0.23 \\ 4.16 \\ 11. + 23.15 \\ \hline \end{array}$$

$$\begin{array}{r} 43.12 \\ 12. - 4.36 \\ \hline \end{array}$$

Division

of 5 problems correct

Find the quotients. Check the third problem by multiplying.

13. $6 \overline{)59}$

14. $4 \overline{)84}$

15. $8 \overline{)652}$

16. Check

Find the quotient. Write the remainder as a fraction.

17. $4 \overline{)279}$

Factors

of 8 problems correct

Underline the number that has...

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

Circle the common factors of each pair of numbers.

24. 8 and 32

2, 4, 6, 8

3, 6, 9

5, 10

7

25. 7 and 28

2, 4, 6, 8

3, 6, 9

5, 10

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.

29. $\frac{\frac{12}{12}}{\frac{7}{12}}$

30. $1 - \frac{3}{10}$

31. $4\frac{7}{8} - 2\frac{4}{8}$

32. $4\frac{5}{7} + 6\frac{1}{7}$

33. $3\frac{7}{18} + 6\frac{5}{18}$

34. $3\frac{4}{5} + 2\frac{3}{5}$

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. $\frac{1}{4} = \frac{\quad}{\quad}$

38. $\frac{2}{9} = \frac{\quad}{\quad}$

Write the missing numerators.

39. $\frac{2}{7} = \frac{\quad}{14}$

40. $\frac{3}{5} = \frac{\quad}{20}$

Geometry

of 15 problems correct

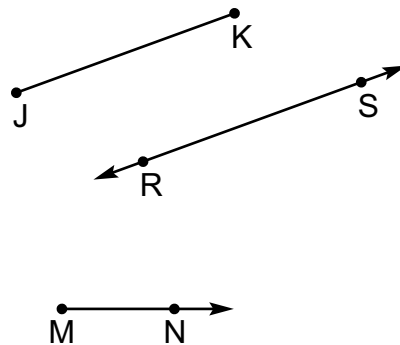
Fill in the blanks. Use letters and symbols.

41. Name the line segment. _____

42. Name the ray. _____

43. Name the line. _____

44. \overline{JK} is parallel to _____.



Answer the questions.

45. The sandbox in Randy's yard is 5 feet wide and 7 feet long. What is the area of the sandbox?

46. What is the perimeter of Randy's sandbox?

47. What is the volume of a box of envelopes that measures 7 inches long, 3 inches wide, and 4 inches high?

My Work Space

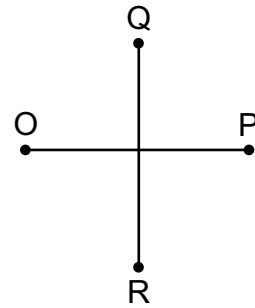
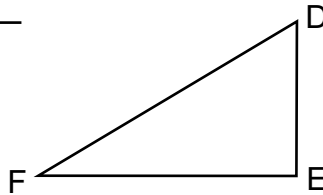
Level 400

Fill in the blanks. Use letters and symbols.

48. \overline{OP} is perpendicular to _____.

49. \overline{OP} intersects _____.

50. Name the triangle. _____

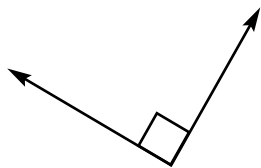


Fill in the blanks.

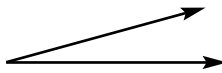
51. If the radius of a circle is 6 inches, the diameter is _____ inches.

52. If the diameter of a circle is 4 meters, the radius is _____ meters.

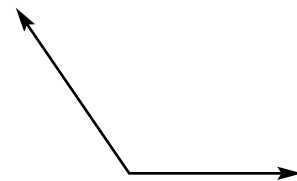
Write *acute*, *obtuse*, or *right* on the line below each angle.



53. _____



54. _____



55. _____

Measures

of 4 problems correct

Measure to the quarter inch.

56. _____ in _____

Finish these function charts.

57.

feet	3	6		12		21	
yards	1		6		3		8

58.

quarts	4	8		12		32	
gallons	1		4		6		5

59.

centimeters	100		700		500	
meters	1	8		4		9

Multiplication

of 7 problems correct

Write the products.

60. $\begin{array}{r} \$ 2.24 \\ \times 9 \\ \hline \end{array}$ 61. $\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$ 62. $\begin{array}{r} 42 \\ \times 30 \\ \hline \end{array}$ 63. $\begin{array}{r} 326 \\ \times 52 \\ \hline \end{array}$ 64. $\begin{array}{r} 416 \\ \times 281 \\ \hline \end{array}$

Write the products.

65. $\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 9 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$

Level 400

Write the products.

66. $\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 10 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 9 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$

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.

74. \$24.53 _____

75. \$3.50 _____

76. \$16.23 _____

Round to the nearest 10 to estimate.

77. estimate $46 - 15$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Round to the nearest 100 to estimate.

78. estimate $236 + 651$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Round to the nearest 10.

79. 256 _____

80. 323 _____

81. 294 _____

82. 395 _____

Round to the nearest 100.

83. 3,625 _____

84. 550 _____

85. 3,962 _____

Level 400

Round to the nearest hundred, then multiply.

86. estimate 240×635

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Round to the nearest ten, then multiply.

87. estimate 56×45

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Subtraction

of 4 problems correct

Write the differences.

88.
$$\begin{array}{r} \$36.00 \\ - 4.23 \\ \hline \end{array}$$

89.
$$\begin{array}{r} 50,003 \\ - 4,236 \\ \hline \end{array}$$

90.
$$\begin{array}{r} 4,593 \\ - 657 \\ \hline \end{array}$$

Copy and solve.

91. $\$43.26 - 17.06$



CLE



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