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Getting Ready for the Grade 4 CMT

(1a)	(1b)
<p>1. Anne had 285 new pencils. She gave 100 of them to the fifth graders in her school. How many pencils does she have left?</p> <p>a      295</p> <p>b      275</p> <p>c      385</p> <p>d      185</p>	<p>5. Which means the same as <math>300 + 50 + 7</math>?</p> <p>a      30,507</p> <p>b      300,507</p> <p>c      357</p> <p>d      3057</p>
(1a)	(1b)
<p>2. Dennis counted 132 sour balls in his bag. Ann ate 10 of them. How many sour balls are still in the bag?</p> <p>f      32</p> <p>g      232</p> <p>h      122</p> <p>j      142</p>	<p>6. Which means the same as 461?</p> <p>f      <math>40 + 60 + 1</math></p> <p>g      <math>400 + 60 + 1</math></p> <p>h      <math>400 + 6 + 1</math></p> <p>j      <math>4 + 6 + 1</math></p>
(1A)	(1b)
<p>3. Rosie had 281 mini-sized popsicles in the freezer. She bought 10 more popsicles. How many popsicles does she now have?</p> <p>a      381</p> <p>b      291</p> <p>c      181</p> <p>d      271</p>	<p>7. Which means the same as <math>300 + 80</math>?</p> <p>a      30,080</p> <p>b      30,800</p> <p>c      3080</p> <p>d      380</p>
(1a)	(1b)
<p>4. Steve bounced 645 times on the pogo stick without stopping. Gary bounced 100 times more than Steve did. How many times did Gary bounce on the pogo stick?</p> <p>f      655</p> <p>g      656</p> <p>h      746</p> <p>j      745</p>	<p>8. Which means the same as 604?</p> <p>f      <math>6 + 0 + 4</math></p> <p>g      <math>60 + 4</math></p> <p>h      <math>600 + 40</math></p> <p>j      <math>600 + 4</math></p>
	(1b)
	<p>9. Which means the same as 290?</p> <p>a      <math>29 + 0</math></p> <p>b      <math>2 + 90</math></p> <p>c      <math>200 + 90</math></p> <p>d      <math>20 + 90</math></p>

(1b)	<p>10. Which means the same as <math>200 + 7</math>?</p> <p>f     270</p> <p>g     207</p> <p>h     2007</p> <p>j     900</p>	(1c)	<p>15. Which means the same as 247?</p> <p>a     1 hundred + 4 tens + 7 ones</p> <p>b     1 hundred + 14 tens + 7 ones</p> <p>c     2 hundreds + 14 tens + 7 ones</p> <p>d     2 hundreds + 14 tens + 17 ones</p>
(1b)	<p>11. Which means the same as 65 tens?</p> <p>a     6510</p> <p>b     650</p> <p>c     65</p> <p>d     75</p>	(1c)	<p>16. Which means the same as 863?</p> <p>f     8 hundreds + 5 tens + 13 ones</p> <p>g     8 hundreds + 15 tens + 3 ones</p> <p>h     7 hundreds + 5 tens + 13 ones</p> <p>j     7 hundreds + 15 tens + 3 ones</p>
(1c)	<p>12. Which means the same as 2 hundreds + 6 tens + 12 ones?</p> <p>f     272</p> <p>g     261</p> <p>h     262</p> <p>j     2612</p>	(1c)	<p>17. Which means the same as 524</p> <p>a     5 hundreds + 1 ten + 4 ones</p> <p>b     5 hundreds + 11 tens + 14 ones</p> <p>c     4 hundreds + 11 tens + 14 ones</p> <p>d     4 hundreds + 11 tens + 4 ones</p>
(1c)	<p>13. Which means the same as 4 hundreds + 18 tens + 7 ones?</p> <p>a     4187</p> <p>b     487</p> <p>c     587</p> <p>d     417</p>	(1d)	<p>18. In which number does 4 have the GREATEST value?</p> <p>f     942</p> <p>g     492</p> <p>h     249</p> <p>j     924</p>
(1c)	<p>14. Which means the same as 7 hundreds + 15 tens + 13 ones?</p> <p>f     763</p> <p>g     873</p> <p>c     753</p> <p>d     863</p>	(1d)	<p>19. In which number does 7 have the LEAST value?</p> <p>a     678</p> <p>b     876</p> <p>c     786</p> <p>d     867</p>

(1d)

20. What is the value of 3 in the number 836?

- f 3
- g 30
- h 36
- j 300

(1d)

24. The value of 931 would change by how much if 3 were replaced by 7?

- f 4
- g 40
- h 400
- j 4000

(1d)

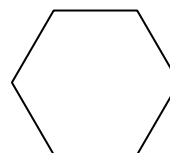
21. What is the value of 5 in the number 2594?

- a 5000
- b 500
- c 50
- d 5

Answer questions 25-33 in your answer booklet.

(2a)

25. Shade in  $\frac{1}{2}$  of the shape below.



(1d)

22. In which number does 6 stand for 6 hundred?

- f 8624
- g 4268
- h 2846
- j 6482

(2a)

26. Shade in  $\frac{1}{4}$  of the shape below.



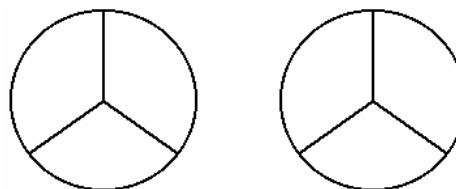
(1d)

23. The value of 832 would change by how much if 8 were replaced by 6?

- a 2000
- b 200
- c 20
- d 2

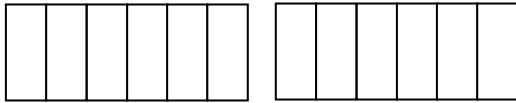
(2a)

27. Shade in  $1\frac{2}{3}$  of these shapes.



(2a)

28. Shade in  $1\frac{5}{6}$  of these shapes.



(2a)


33. Draw a ring around  $\frac{3}{7}$  of the letters.

p p p p p p p

(2a)

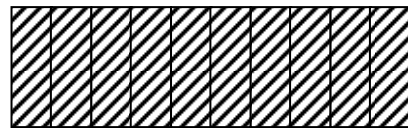
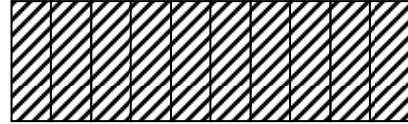
29. Shade in 0.3 of the set below.



Each  = 0.1

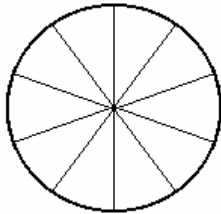
(2b)

34. The shaded part of this picture shows what numeral or mixed number?



(2a)

30. Shade in 0.8 of the shape below.



f  $2\frac{2}{10}$

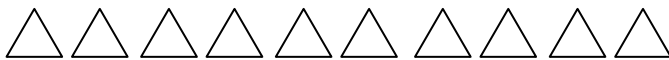
g  $1\frac{2}{10}$

h  $2\frac{9}{10}$

j 3

(2a)

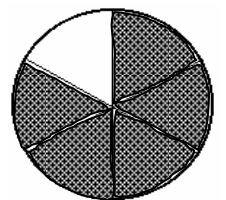
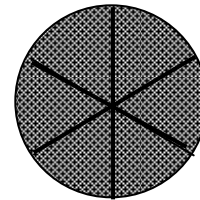
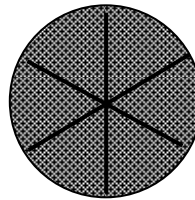
31. Shade in 0.6 of the picture.



Each  = 0.1

(2b)

35. How much of the picture below is shaded?



(2a)

32. Draw a ring around 0.1 of the stars below.



a **3**

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

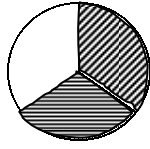
c  **$2\frac{5}{6}$**

d  **$2\frac{1}{5}$**

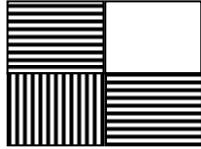
(2b)

36. Which picture shows  $\frac{3}{4}$  shaded?

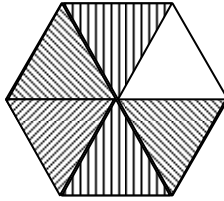
f



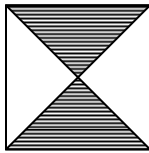
g



h



j



(2c)

38. Which picture shows 0.7 shaded?

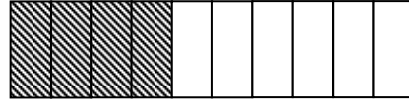
f



g



h



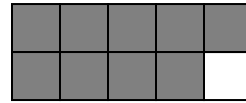
j



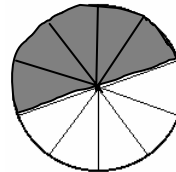
(2c)

39. Which picture shows 0.5 shaded?

a



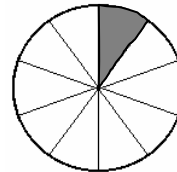
b



c

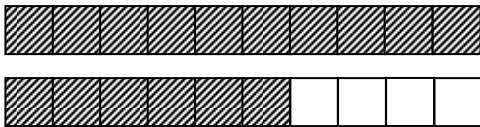


d



(2c)

37. The shaded part of this picture shows what decimal number?

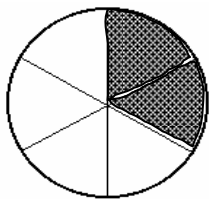


Each  $\square = 0.1$

- a 0.1
- b 2
- c 1.6
- d 1.4

(3)

40. What is another name for the shaded part of the circle?



f  $\frac{1}{2}$

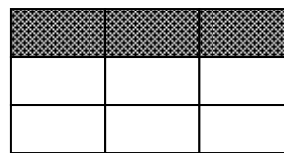
h  $\frac{3}{4}$

g  $\frac{1}{6}$

j  $\frac{1}{3}$

(3)

43. What is another name for the shaded part of this picture?



a  $\frac{1}{2}$

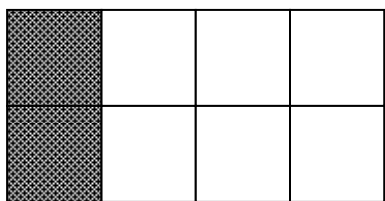
b  $\frac{1}{3}$

c  $\frac{1}{4}$

d  $\frac{1}{6}$

(3)

41. What is another name for the shaded part of this picture?



a  $\frac{1}{4}$

c  $\frac{2}{3}$

b  $\frac{1}{2}$

d  $\frac{2}{6}$

(4a)

44. The table below shows how much money four people earned at their summer jobs.

<b>PERSON</b>	<b>MONEY EARNED</b>
<b>Ida</b>	\$5698
<b>Donna</b>	\$4865
<b>Terry</b>	\$4381
<b>Nancy</b>	\$5299

Who earned the most money?

f Ida

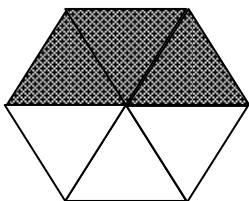
g Donna

h Terry

j Nancy

(3)

42. What is another name for the shaded part of the hexagon?



f  $\frac{1}{3}$

h  $\frac{1}{4}$

g  $\frac{1}{6}$

j  $\frac{1}{2}$

(4a)

45. The students in Grades 2, 3, 4, and 5 all collected pennies. The chart below shows how many pennies they collected.

<b>CLASS</b>	<b>NUMBER OF PENNIES</b>
<b>Grade 2</b>	1018
<b>Grade 3</b>	925
<b>Grade 4</b>	1062
<b>Grade 5</b>	987

Grade 1 also collected pennies. They collected the number of pennies in between the number of pennies for Grade 2 and Grade 5. How many pennies did Grade 1 collect?

- a 1106
- b 995
- c 956
- d 963

(4b)

46. This table shows the weights of four monkeys at the zoo.

Name	Weight in Pounds
Minnie	28.8
Mickey	33.7
Pluto	31.6
Goofy	25.4

If the monkeys' weights were listed from SMALLEST to LARGEST, which monkey would be third on the list?

- f Minnie
- g Mickey
- h Pluto
- j Goofy

(4b)

47. Christine has between \$400 and \$450 in her secret hiding place. Which is the amount of money Christine has?

- a \$328
- b \$417
- c \$485
- d \$395

(4b)

48. Mr. Smith is a truck driver. Last week he drove MORE than 2600 miles and LESS than 3200 miles. How many miles could Mr. Smith have driven?

- f 2500
- g 3500
- h 2300
- j 3100

(4b)

49. The chart below shows how many miles that four people walked.

NAME	NUMBER OF MILES
Peter	$1\frac{3}{4}$
Paul	<b>2</b>
Mary	$1\frac{1}{2}$
Puff	$2\frac{1}{4}$

Who walked the SHORTEST distance?

- a Peter
- b Paul
- c Mary
- d Puff

(4b)

50. The table shows how much pizza each person ate at a party.

Name of Person	Amount of Pizza
Charlene	$\frac{1}{3}$
Dale	$\frac{1}{6}$
Laurie	$\frac{1}{2}$
Betsy	$\frac{1}{4}$

Who ate the MOST pizza?

- f Charlene
- g Dale
- h Laurie
- j Betsy

(4c)

51. The Gulf of Mexico is 4874 feet deep. This number is ABOUT

- a 3000
- b 4000
- c 5000
- d 6000

(4c)

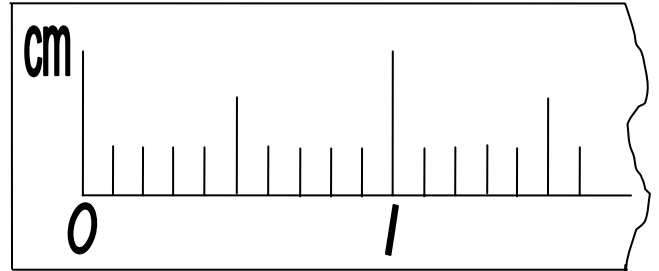
52. The highest place in Illinois is 1235 feet above sea level. This number rounded to the nearest hundred is

- f 1100
- g 1200
- h 1350
- j 1400

Answer questions 53 – 55 in your answer booklet.

(4d)

53. Draw a black dot on the ruler to show where 0.3 is found.



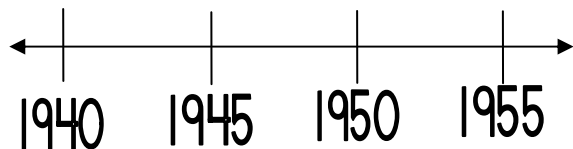
(4d)

54. Put an X on the measuring cup below to show  $\frac{2}{3}$ .



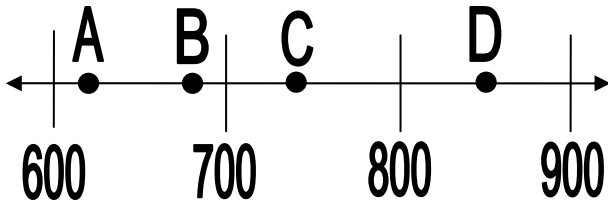
(4d)

55. Draw a heavy line through the number line below to show where 1947 would be.



(4d)

56. Which point on the number line MOST accurately shows 680?



- f A
- g B
- h C
- j D

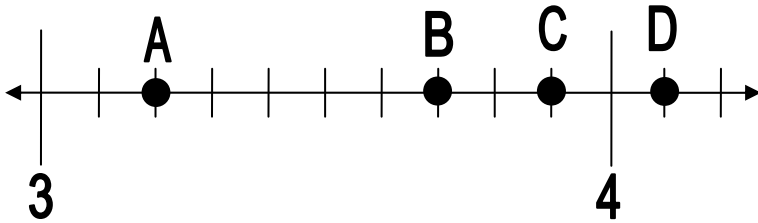
(5a)

59 The average staircase has 12 steps. Which number sentence could be used to find the number of steps in 4 staircases?

- a  $12 + 4 = \square$
- b  $12 - 4 = \square$
- c  $12 \times 4 = \square$
- d  $12 \div 4 = \square$

(4d)

57. What letter indicates 3.7 on the number line below?



- a A
- b B
- c C
- d D

(5a)

60. Andrea had 30 chocolate candy bars. She put the candy bars in 5 boxes. Which could she use to find out how many candy bars are in each box?

- f Multiply 30 by 5
- g Subtract 5 from 30
- h Divide 30 by 5
- j Add 5 to 30

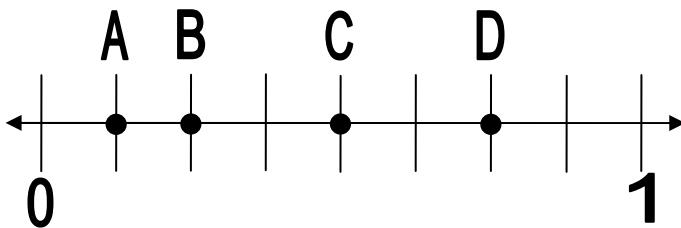
(5a)

61. Pat bought a chicken sandwich for \$2.50 and milk for \$0.50. Which number sentence should be used to find out how much money she spent?

- a  $\$2.50 \times .50 = \square$
- b  $\$2.50 + .50 = \square$
- c  $\$2.50 \div .50 = \square$
- d  $\$2.50 - .50 = \square$

(4d)

58. Which fraction is marked by letter C on the number line below?



- f  $\frac{1}{2}$
- g  $\frac{1}{8}$
- h  $\frac{7}{8}$
- j  $\frac{1}{4}$

(5A)

62. Eileen planted 25 red peppers and 32 green peppers in her garden. How could you find out how many more green peppers than red peppers she planted?

- f Add 25 to 32
- g Divide 32 by 25
- h Multiply 25 by 32
- j Subtract 25 from 32

Answer questions 63 – 66 in your answer booklet.

(5b)

63. Write a story problem that can be solved using the number sentence  $18 + 36 = \square$ .

(5b)

64. Write a story problem that can be solved using the number sentence  $500 - 300 = \square$ .

(5b)

65. Write a story problem that can be solved using the number sentence  $32 \times 4 = \square$ .

(5b)

66. Write a story problem that can be solved using the number sentence  $56 \div 7 = \square$ .

Record and bubble in your answers to problems 80 and 81 in your answer booklet.

(6a)

67. Solve this problem.

$$3 \times 8 =$$

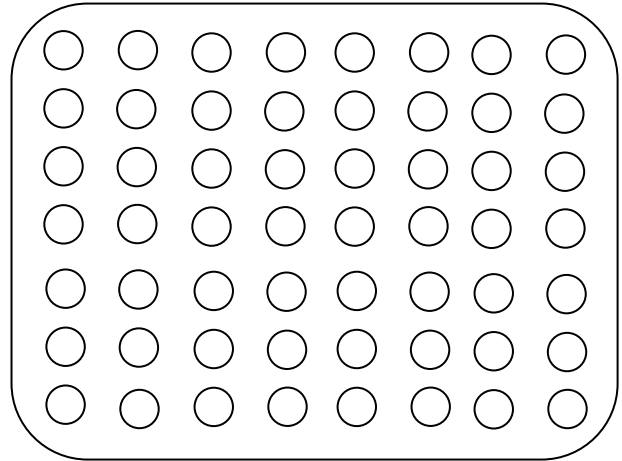
(6b)

68. Solve this problem.

$$32 \div 4 =$$

(6c)

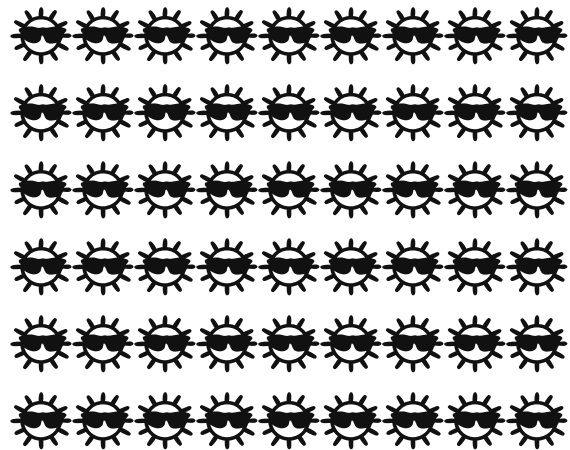
69. Which number fact describes the picture below?



- a  $8 \times 8 = 64$
- b  $7 \times 8 = 56$
- c  $7 \times 7 = 49$
- d  $9 \times 8 = 72$

(6c)

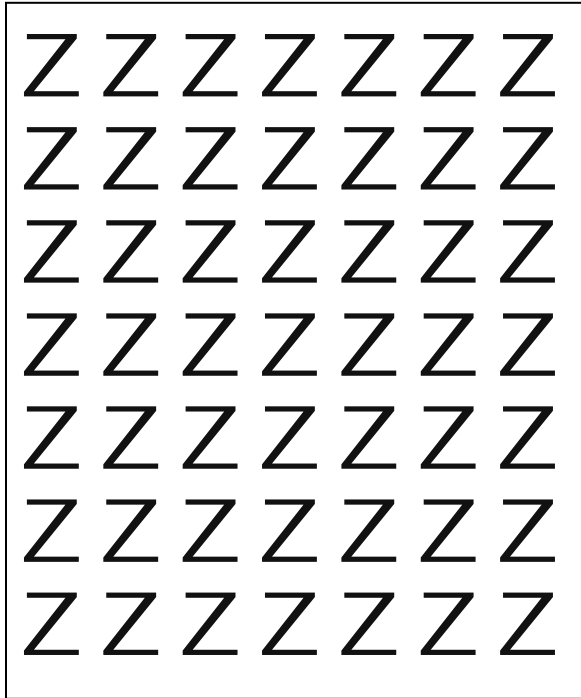
70. Which number fact describes this picture?



- f  $6 \times 7 = 42$
- g  $6 \times 9 = 54$
- h  $7 \times 9 = 63$
- j  $9 \times 9 = 81$

(6c)

71. Which number fact describes the picture below?



- a  $48 \div 8 = 6$
- b  $49 \div 7 = 7$
- c  $72 \div 9 = 8$
- d  $54 \div 6 = 9$

Record and bubble in the answers to problems 72 – 81 in your answer booklet.

(7a)

72. Solve this problem.

$$\begin{array}{r} \$5.26 \\ + 2.93 \\ \hline \end{array}$$

(7a)

73. Solve this problem.

$$843 + 28 =$$

(7a)

74. Solve this problem.

$$\$6.03 - .29 =$$

(7a)

75. Solve this problem.

$$\begin{array}{r} 850 \\ - 295 \\ \hline \end{array}$$

(9a)

76. A Douglas fir tree in Oregon is 329 feet tall. A sugar pine tree in California is 232 feet tall. How much shorter is the sugar pine tree than the Douglas fir?

(9a)

77. Toni bought 8 packs of pencils. There were 10 pencils in each pack. How many pencils did she have?

(9a)

78. Pat is moving to a new house. She packed 36 books in 4 boxes. If each box had the same number of books, how many books were in each box?

(9a)

79. John bought a new notebook for \$3.98 and a gel pen for \$1.85. How much money did John spend?

(9b)

80. Joey rode his bike 12 miles on Monday. He made 10 points for his soccer team on Wednesday and rode his bike 18 miles on Thursday. How many more miles did Joey drive his bike on Thursday than on Monday?

<p style="text-align: right;">(9b)</p> <p>81. The grocery store sold 29 boxes of cereal on Tuesday. On Wednesday it sold 45 bottles of shampoo. On Thursday it sold 10 boxes of cereal and 12 bottles of shampoo. How many boxes of cereal were sold?</p>	<p style="text-align: right;">(10)</p> <p>86. Heather needs to add 412 to 792. Which of the following would be BEST for Heather to use to ESTIMATE the sum?</p> <p>f      <math>500 + 800</math></p> <p>g      <math>500 + 700</math></p> <p>h      <math>400 + 800</math></p> <p>j      <math>400 + 700</math></p>
<p>In your answer booklet, write your answer and explain how you got your answer to problems 82-85.</p> <p style="text-align: right;">(9c)</p> <p>82. Joy has 695 baseball cards, and Jill has 187 baseball cards. How many baseball cards do the two girls have? Explain or show how you determined your answer.</p>	<p style="text-align: right;">(10)</p> <p>87. Samuel needs to subtract 589 from 820. Which of the following would be BEST for Samuel to use to ESTIMATE the difference?</p> <p>a      <math>800 - 600</math></p> <p>b      <math>800 - 500</math></p> <p>c      <math>900 - 600</math></p> <p>d      <math>900 - 500</math></p>
<p style="text-align: right;">(9c)</p> <p>83. Tom had \$8.00. He bought a burger and fries for \$5.25. How much money did he have left after paying for his burger and fries? Explain or show how you arrived at your answer.</p>	<p style="text-align: right;">(10)</p> <p>88. Carol bought a pair of scissors for \$12.89 and a hammer for \$18.95. Which of the following would be best for Carol to use to estimate the cost of her two items?</p> <p>f      <math>\\$12 + \\$18</math></p> <p>g      <math>\\$13 + \\$18</math></p> <p>h      <math>\\$12 + \\$19</math></p> <p>j      <math>\\$13 + \\$19</math></p>
<p style="text-align: right;">(9c)</p> <p>84. Terry built 4 walls in his back yard. He used 6012 bricks and put the same number of bricks in each wall. How many bricks did he use for one wall? Explain or show how you determined your answer.</p>	<p style="text-align: right;">(10)</p> <p>89. Sandy needs to multiply 8194 by 5221. Which of the following would be BEST for Sandy to use to ESTIMATE the product?</p> <p>a      <math>8000 \times 5000</math></p> <p>b      <math>8000 \times 6000</math></p> <p>c      <math>9000 \times 5000</math></p> <p>d      <math>9000 \times 6000</math></p>
<p style="text-align: right;">(9c)</p> <p>85. Ida buried 5 boxes. Each box has \$5295 inside. How much money did Ida bury? Explain or show how you arrived at your answer.</p>	<p style="text-align: right;">(10)</p> <p>89. Sandy needs to multiply 8194 by 5221. Which of the following would be BEST for Sandy to use to ESTIMATE the product?</p> <p>a      <math>8000 \times 5000</math></p> <p>b      <math>8000 \times 6000</math></p> <p>c      <math>9000 \times 5000</math></p> <p>d      <math>9000 \times 6000</math></p>

(10)

90. José needs to divide 825 by 38. Which of the following would be BEST for José to use to ESTIMATE the quotient?

- f  $800 \div 30$
- g  $900 \div 30$
- h  $800 \div 40$
- j  $900 \div 40$

(14a)

94. The fifth graders arrived back at school from their field trip at 5:15 PM. The trip took 1 hour and 15 minutes. What time did they leave to return to school?

- f 3:45 PM
- g 4:45 PM
- h 4:15 PM
- j 4:00 PM





(11)

91. At the music store, a saxophone cost \$719 and a clarinet cost \$899. What is a REASONABLE estimate for the cost of the two instruments?

- a \$1500
- b \$1600
- c \$ 200
- d \$ 100

(14a)

95. Mrs. Nichols started walking around the lake at 2:30. She walked for 45 minutes and then stopped. Which clock shows what time she stopped?

- a 
- b 
- c 
- d 

(11)

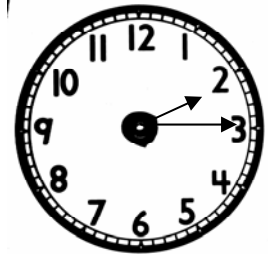
92. Mrs. Mastery bought a math book for \$7.25. She paid for it with a \$10 bill. What is a REASONABLE estimate for her change?

- f \$1
- g \$2
- h \$3
- j \$4

(14a)

96. Peter has to be home  $\frac{3}{4}$  of an hour after the time shown on the clock. What time does Peter have to be home?

- f 1:30
- g 2:30
- h 2:45
- j 3:00



(14a)

93. The fifth graders went on a field trip. They left at 8:30 AM. The trip took  $1\frac{1}{2}$  hours. At what time did they arrive?

- a 8:00 AM
- b 9:30 AM
- c 10:00 AM
- d 10:30 AM

(14a)

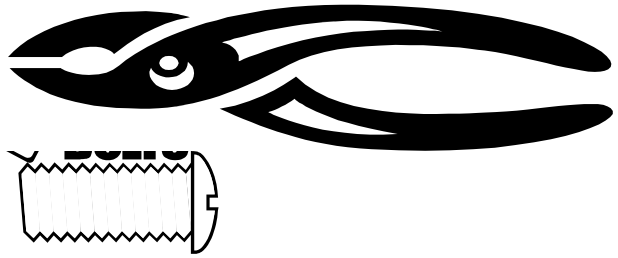
97. Debbie started working  $1\frac{1}{2}$  hours before the time shown below. At what time did Debbie start working?



- a 7:30
- b 8:15
- c 9:00
- d 9:30

(15)

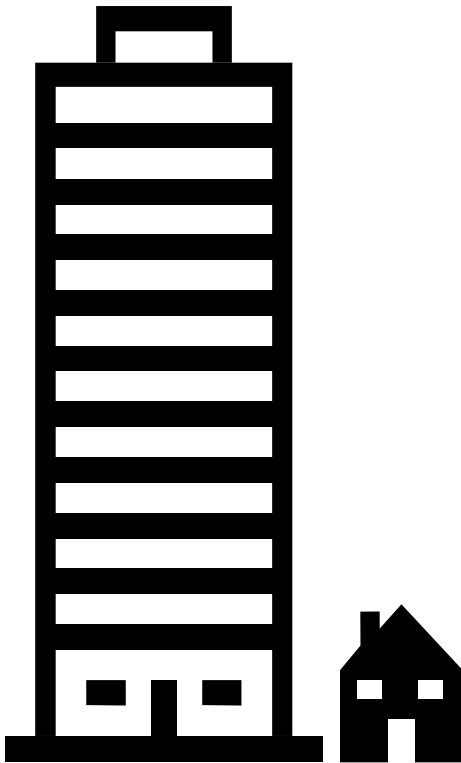
99. If the long pliers are 12 inches, ABOUT how long is the short bolt?



- a 2 in
- b 4 in
- c 6 in
- d 8 in

(15)

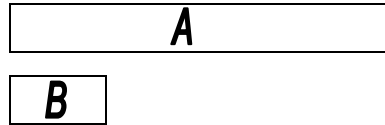
98. If the short building is 3 feet tall, ABOUT how tall is the tall building?



- f 9 feet
- g 12 feet
- h 15 feet
- j 18 feet

(15)

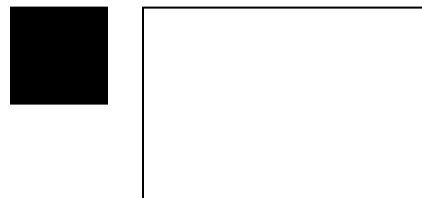
100. If rectangle A is 16 units long, ABOUT how long is rectangle B?



- f 1 unit
- g 2 units
- h 3 units
- j 4 units

(15)

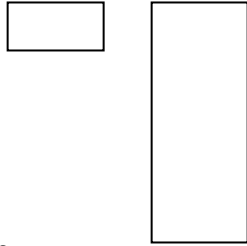
101. ABOUT how many shaded squares would fill the large rectangle?



- a 2
- b 4
- c 6
- d 8

(15)

102. ABOUT how many small shapes would be needed to fill the large shape?

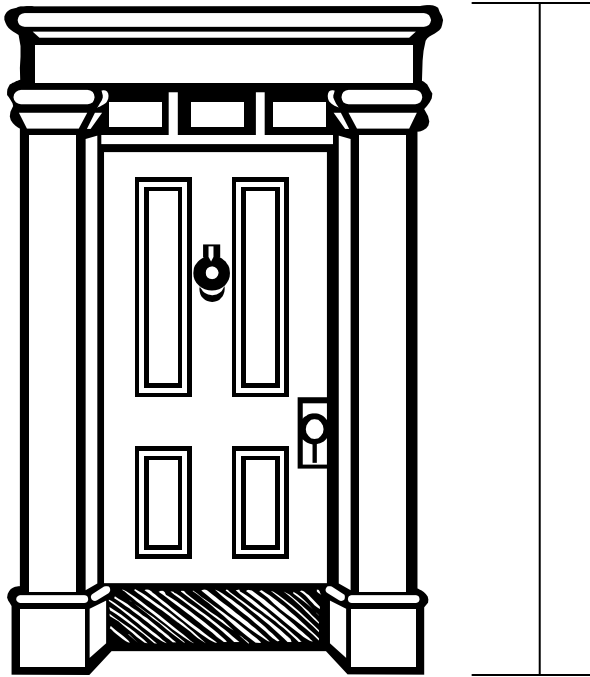


- f 3
- g 5
- h 8
- j 10

Answer questions 103-105 in your answer booklet. Use the ruler found in your answer booklet at the bottom of page 10.

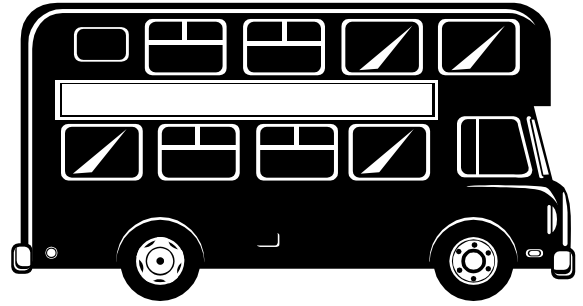
(16a)

103. Use your ruler to determine the height of the door to the nearest half-inch.



(16a)

104. Use your ruler to determine the length of the bus to the nearest inch.



(16a)

105. Use your ruler to determine the length of the cat to the nearest centimeter.



(16b)

106. The height of a telephone pole is BEST measured in

- f inches
- g feet
- h miles
- j gallons

(16b)

107. The distance from Hartford to Boston is BEST measured in

- a meters
- b kilometers
- c centimeters
- d liters

(16b)

108. What is a REASONABLE width for your fingernail?

- f 1 meter
- g 1 centimeter
- h 1 kilometer
- j 1 yard

(17a)

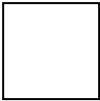
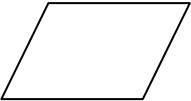


111. What is the name of this figure?



- a pentagon
- b parallelogram
- c trapezoid
- d rhombus

(17a)

109. Which figure below is NOT a parallelogram?

- a 
- b 
- c 
- d 

(17a)

112. What is one name for the figure below?



- f trapezoid
- g triangle
- h polygon
- j hexagon

Answer questions 113 and 114 in your answer booklet.

(17b)

113. Draw a rhombus. Write one or two sentences to describe this figure.

(17A)

110. What is one name for the figure below?



- f square
- g trapezoid
- h quadrilateral
- j hexagon

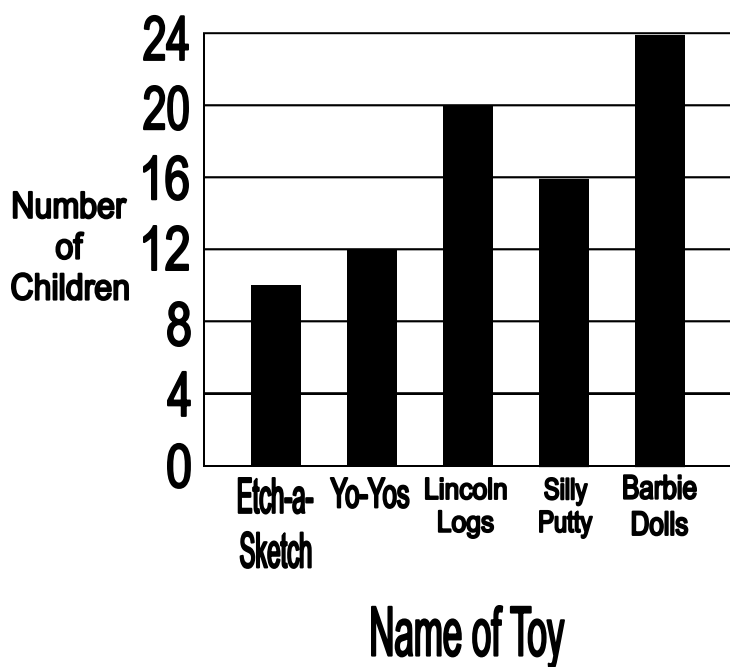
(17b)

114. Draw a rectangle. Write one or two sentences to describe this figure.

Use this graph to answer questions 115 and 116.

The BAR graph below shows the number of children in a class survey who play with toys today that were popular in the 1950's.

FAVORITE TOYS OF TODAY AND LONG AGO



(19a)

115. What was the total number of children who chose Barbie Dolls and Etch-a-Sketch?

- a 30
- b 22
- c 44
- d 34

(19a)

116. What was the total number of children who did NOT choose Barbie Dolls?

- f 82
- g 58
- h 44
- j 36

Use this graph to answer questions 117 and 118.

The PICTOGRAPH shows results of a fifth grade survey about things that students like to collect.

FAVORITE OBJECTS TO COLLECT

Object	Number of Students
Money	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Action Figures	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Hot Wheel Cars	<input type="checkbox"/> <input type="checkbox"/>
Barbie Dolls	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Baseball Cards	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Let  = 4 Students

(19a)

117. How many more students collect baseball cards than hot wheel cars?

- a 4
- b 8
- c 12
- d 16

(19a)

118. How many objects were collected by FEWER than 12 students?

- f 1
- g 2
- h 3
- j 4

Answer questions 119 and 120 in your answer booklet.

(19b)

119. Complete and label the BAR graph using the following data.

MIDDLE SCHOOL ELECTION RESULTS

STUDENTS	NUMBER OF VOTES
Steve McQueen	80
Kate Hepburn	50
Spencer Tracy	100
Harrison Ford	60
Paul Newman	120

Use this table to answer questions 121 and 122.

The table shows the results of a fifth grade survey in which students picked their favorite *BEN & JERRY'S* ice cream flavor.

FAVORITE *BEN & JERRY'S* ICE CREAM FLAVORS

ICE CREAM FLAVOR	GIRLS	BOYS
Chunky Monkey	43	21
Cherry Garcia	46	30
Cookie Dough	19	16
Phish Food™	39	57

(20)

(19b)

120. Complete and label the PICTOGRAPH using the following information.

BRIAN'S CAP COLLECTION

SPORT	NUMBER OF CAPS
Baseball	28
Basketball	16
Hockey	24
Football	12

Let  $\Delta = 4$  caps.

121. Which flavor of ice cream is ABOUT twice as popular with the girls as with the boys?

- a Phish Food™
- b Chunky Monkey
- c Cookie Dough
- d Cherry Garcia

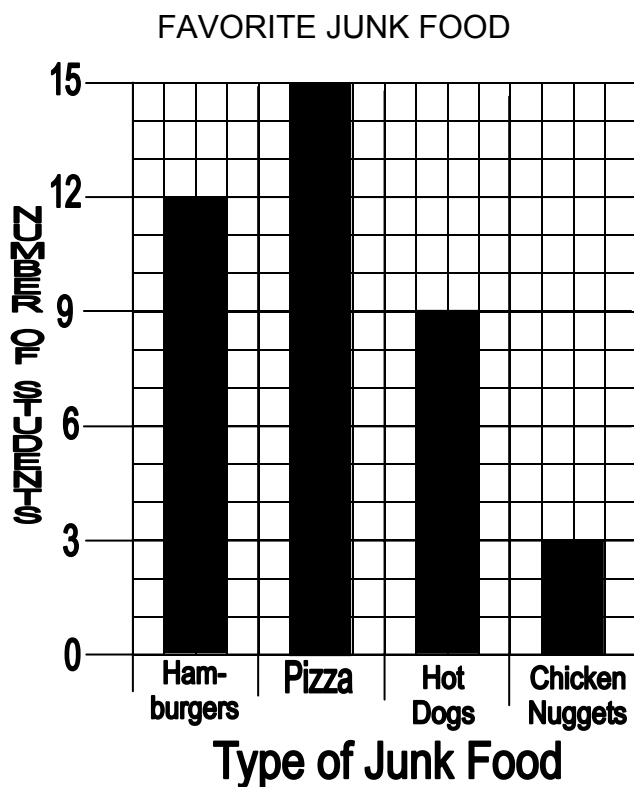
(20)

122. Which statement about the survey is true?

- f More boys than girls prefer Cherry Garcia ice cream.
- g Less than 40 students chose Phish Food™ ice cream.
- h Cookie Dough was the most popular ice cream flavor.
- j More girls than boys picked Chunky Monkey as their favorite flavor.

Use the graph to answer question 123.

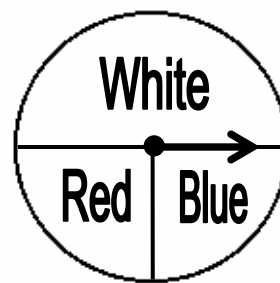
The BAR graph shows the results of a fifth grade survey in which students picked their favorite junk food.



(20)

123. Based on the information in the BAR graph above, which statement is true?

- a Pizza was picked by twice as many students as chicken nuggets.
- b More students liked chicken nuggets than hamburgers.
- c Hot dogs were picked by three times as many students as chicken nuggets.
- d Hot dogs were picked as the least favorite junk food.



(21)

124. George and Martha took turns using the spinner above. If the arrow landed on blue, George got one point. If the arrow landed on red, George got another point. If the arrow landed on white, Martha got 2 points. Was this game fair?

- f Yes, because George and Martha took turns using the spinner.
- g No, because the colors on the spinner are not equal in size.
- h Yes, because George and Martha both have equal chances to get the same number of points.
- j No, because George gets two colors and Martha gets only one color.

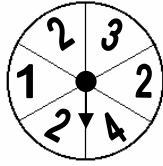
(21)

125. Louise had 8 red ribbons, 4 blue ribbons, 8 green ribbons, and 6 purple ribbons in a bag. If Louise picks one ribbon out of the bag without looking, what can you say about the ribbon she will pick?

- a It is most likely to be red.
- b It is most likely to be blue.
- c It is equally likely to be red or green.
- d It is equally likely to be blue or red.

(21)

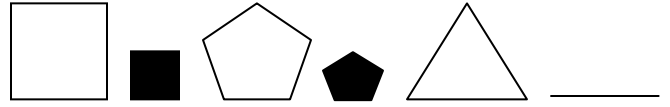
126. If Davis spins the spinner once, on which number is the arrow MOST likely to land?



- f 1
- g 2
- h 3
- j 4

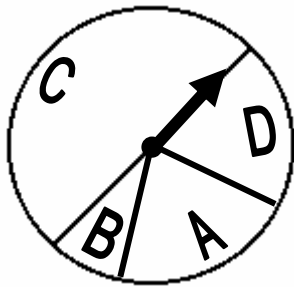
(22)

129. Draw the figure that should come next in the pattern. Write a sentence to explain how you decided what to draw.



(21)

127. If Teresa spins this spinner once, on which letter is the arrow LEAST likely to land?



- a A
- b B
- c C
- d D

(22)

130. The numbers below follow a pattern. Which number is next in the pattern? Write a sentence to explain why you chose that number.

3510, 3530, 3550, 3570, \_\_\_\_

(24)

131. Sara, Chuck, Juan, and Mary ran in a race.

- Chuck beat Juan and Sara.
- Mary ran the slowest.

Who won the race?

- a Sara
- b Chuck
- c Juan
- d Mary

Answer problems 128 – 130 in your answer booklet.

(22)

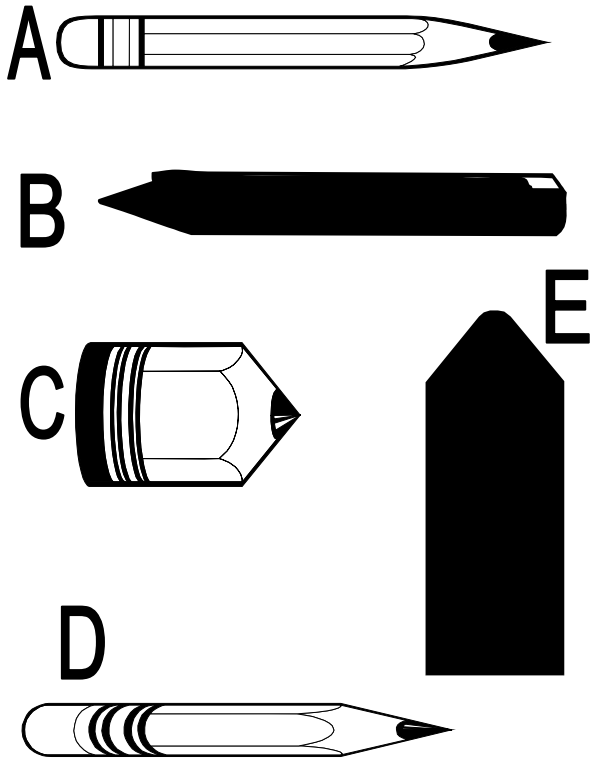
128. What is the next number in this pattern? Write the number. Then write a sentence to explain why you chose that number.

22, 29, 36, 43, \_\_\_\_

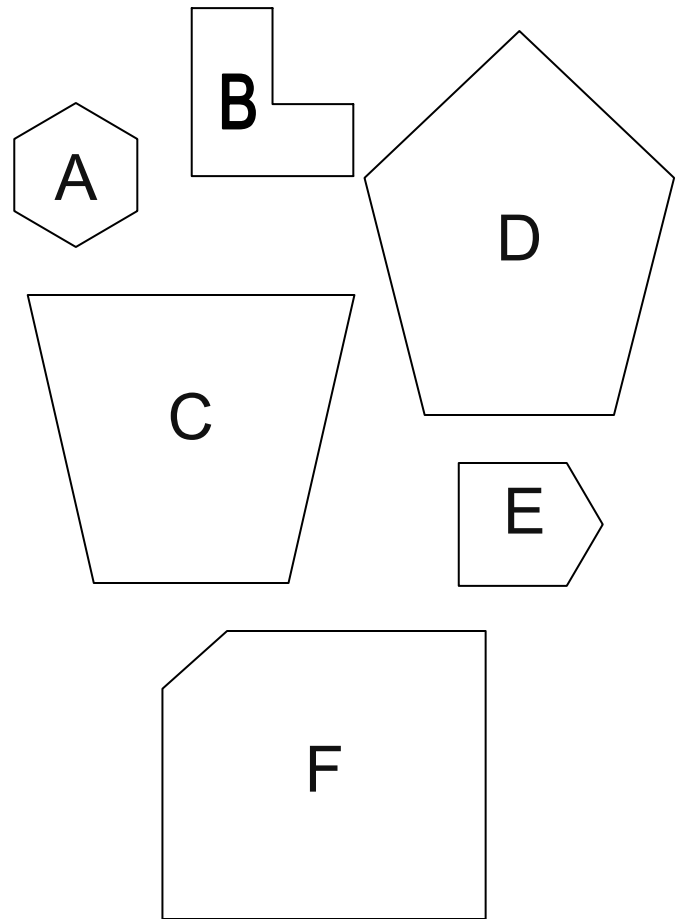
Answer questions 132 – 136 in your answer booklet.

(24)

132. Sort all 5 of these objects into 2 groups so that the objects in each group have something in common. Show how you grouped the objects by writing the LETTERS from each object into the boxes labeled Group 1 and Group 2. Then write a sentence to explain how you decided to group the objects.



133. Sort all 6 of these shapes into 2 groups so that the shapes in each group have something in common. Show how you grouped the shapes by writing the LETTERS from each shape into the boxes labeled Group 1 and Group 2. Then write a sentence to explain how you decided to group the shapes.



(25)

134. The Sport Center displays some of the items it sells in a 3 x 5 rectangular box. The store owner wants to display several of each of the following items that the store sells:

- Baseballs (B)
- Footballs (F)
- Soccer balls (S)
- 

The display must follow these rules:

- There must be an odd number of each item included;
- No two display boxes that share a side can have the same item.

Fill in the grid in your answer booklet. Write a sentence explaining what items you put into the box. Show how you determined your answer.

(25)

136. Jean is going to buy toys that will be given to the winners of a reading contest. The toys and their cost are shown below.

TOY	COST PER TOY
Barbie® Doll	\$35
Barbie® Plush Poodle	\$15
Spider-Man® Glider	\$20
Harry Potter™ Doll	\$30
Flik Flak Watch	\$25
Baseball	\$10

She must buy no more than 2 of any toy. She does not have to buy all six toys. She must spend about \$125. Make a list of which toys Jean could buy and the total cost of all the toys.

(25)

135. Tom threw four number cubes and got the digits below.



He used the digits to create some subtraction problems. In your answer booklet, list all the subtraction problems that can be created. All 4 digits must be used in each problem.

