

### Rising Grade 3 Summer Math Packet

The problems in this packet are designed to help you review topics from previous mathematics courses that are essential to your success in grade 2. You are expected to bring this completed packet to class on the first day of school. In addition, this packet will count as part of your first-quarter grade. **Upon returning, you will be ASSESSED on the content of this packet.** All content outlined in the packet is grade 1 material. Neatly **SHOW YOUR WORK!**

1. Which equation is true if 8 is placed in the blank?

A  $7 + \underline{\quad} = 13$

B  $\underline{\quad} + 8 = 16$

C  $15 - \underline{\quad} = 9$

D  $10 - \underline{\quad} = 1$

2. Which is the same amount as  $36 + 55$ ? Choose all that apply.

81

91

$30 + 50 + 6 + 5$

$80 + 11$

$10 + 55 + 5 + 3$

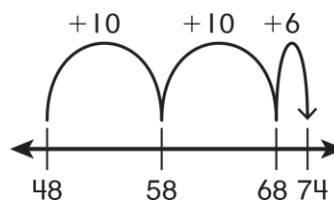
3. Which equation does this number line show?

A  $48 + 20 = 68$

B  $74 - 26 = 48$

C  $48 + 26 = 74$

D  $48 + 27 = 75$



4. Use the ten-frames. Show how to make a 10 to find  $14 - 6$ .

Then complete the equation.

$14 - 6 = \underline{\quad}$



5. Melinda puts photos in 4 rows. Each row has 3 photos. Draw a picture to show the array of photos. Then write an equation for your picture.

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ +

\_\_\_\_\_ = \_\_\_\_\_

There are \_\_\_\_\_ photos

6. A. You want to find a sum using place-value blocks. Which equation do you need to regroup to find the sum?

A  $33 + 46 = ?$

B  $29 + 12 = ?$

C  $81 + 7 = ?$

D  $61 + 8 = ?$

- B. Explain how to regroup your answer from **Part A**.

7. Which shows how to *count on* to find  $8 + 5$ ?

A  $5 + 8$

C  $5 \dots 6, 7, 8, 9, 10$

B  $8 + 5$

D  $8 \dots 9, 10, 11, 12, 13$

8. Carlos has 48 shells. His sister gives him 27 more shells. How many shells does Carlos have in all? Write an equation to explain.

\_\_\_\_\_ shells

9. Aiden has 3 rows of buttons with 6 buttons in each row. Which equation shows how many buttons Aiden has in all?

A  $3 + 6 = 9$

B  $3 + 3 + 3 = 9$

C  $6 + 6 + 6 = 18$

D  $6 + 6 = 12$

10. Which have a sum of 80? Choose all that apply.

$30 + 50$

$45 + 35$

$65 + 25$

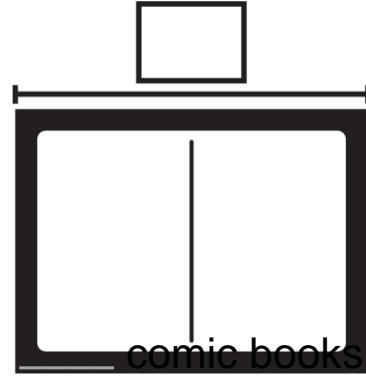
$40 + 40$

$38 + 5$

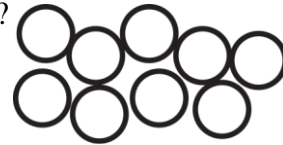
11. Ava has some plums. She gives 9 plums to a friend. Now Ava has 8 plums. How many plums did Ava have at first? Write an equation to solve.



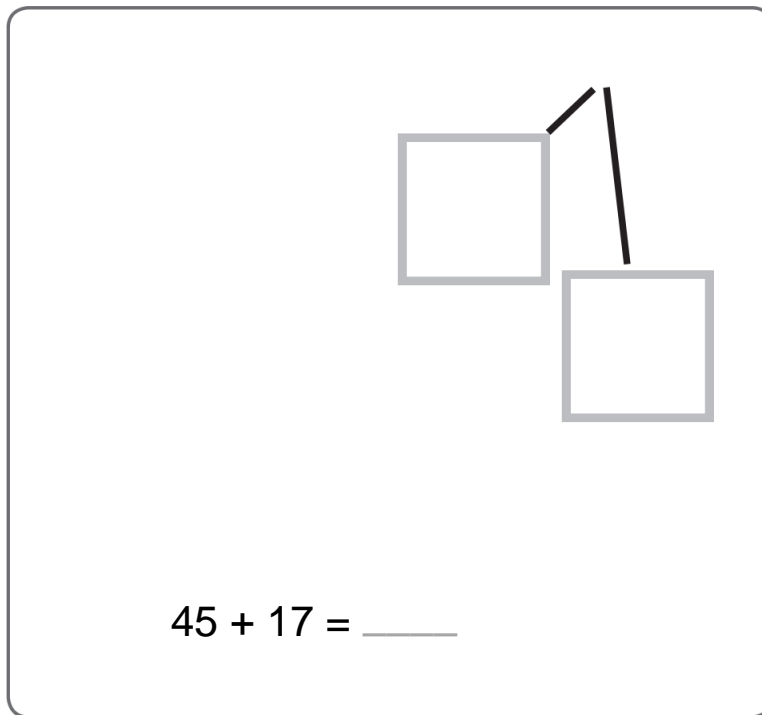
12. Lisa has 28 more comic books than Jordan. Jordan has 35 comic books. How many comic books does Lisa have? Use the bar diagram to model and solve the problem. Show your work.



13. How many circles are shown? Is the number even or odd? Draw a picture to show how you know.



14. Break apart the second addend to find  $45 + 17$ . Show your work.



15. Use the numbers on the cards. Write the missing number to complete each equation.



$$13 + \underline{\quad} + 17 + 11 = 50$$

$$3 + 25 + 1\underline{\quad} + 15 = 60$$

$$24 + 26 + 12 + \underline{\quad} = 70$$

$$14 + 5\underline{\quad} + 13 + 7 = 90$$



16. Which are equal to  $36 + 57$ ? Choose all that apply.
- |                          |               |                          |                    |
|--------------------------|---------------|--------------------------|--------------------|
| <input type="checkbox"/> | $80 + 13$     | <input type="checkbox"/> | $30 + 50 + 10 + 3$ |
| <input type="checkbox"/> | $30 + 50 + 3$ | <input type="checkbox"/> | $80 + 6 + 7$       |
| <input type="checkbox"/> | $50 + 30 + 7$ |                          |                    |

17. A. Which equation has a sum that is an even number, greater than 16?
- A  $9 + 9 = ?$   
 B  $8 + 9 = ?$   
 C  $7 + 7 = ?$   
 D  $10 + 9 = ?$

B. What is the missing sum in the answer to **Part A**?

18. There are 7 more boys than girls at the park. There are 13 boys at the park. How many girls are at the park?

A. Draw a picture to model the problem.



B. Write an equation to solve the problem.

$\underline{\quad}$    $\underline{\quad} = \underline{\quad}$   
 $\underline{\quad}$  girls

**19. Part A**

Show how to add  $46 + 19$  using the open number line.

$46 + 19 = \underline{\quad}$



**Part B**

In words, tell how you used the open number line to find the sum.

20. Andrew has 10 cubes. Choose all of the equations that Andrew can use to make an array with his cubes.

- |                          |                          |                          |                  |
|--------------------------|--------------------------|--------------------------|------------------|
| <input type="checkbox"/> | $3 + 3 + 2 + 2 = 10$     | <input type="checkbox"/> | $8 + 2 = 10$     |
| <input type="checkbox"/> | $2 + 2 + 2 + 2 + 2 = 10$ | <input type="checkbox"/> | $6 + 2 + 2 = 10$ |
| <input type="checkbox"/> | $5 + 5 = 10$             |                          |                  |

21. Circle the addition problem that you can use regrouping of place-value blocks to solve. Then draw blocks to show how you know.

$17 + 22$                        $55 + 31$                        $44 + 17$



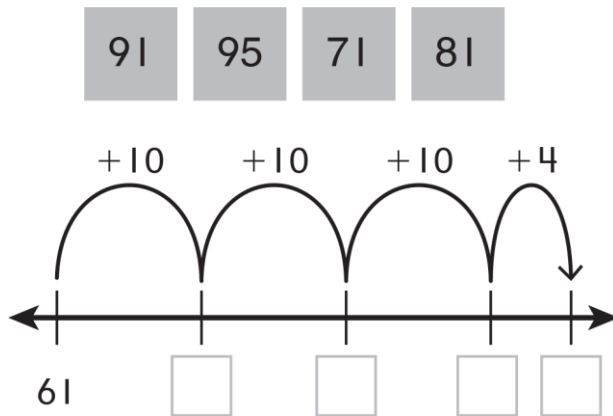
22. Jenny has 15 eggs. She uses 7 eggs to make breakfast for her family. Which addition fact can help you find how many eggs Jenny has left?
- A  $7 + 7 = 14$                       C  $9 + 6 = 15$   
 B  $7 + 8 = 15$                         D  $7 + 9 = 16$

23. Isaac has 29 pennies. His brother gives him 46 more pennies. Isaac gave 16 pennies to a friend. Which equations should be used to find how many pennies Isaac has now? Did you have to regroup to solve the problem? Explain.

24. Kevin has 15 coins. Look at each equation. Choose all the equations that Kevin can use to make an array with his coins.

- $10 + 5 = 15$   
  $5 + 5 + 5 = 15$   
  $3 + 3 + 3 + 3 + 3 = 15$   
  $6 + 9 = 15$   
  $9 + 2 + 4 = 15$

25. Use the numbers on the cards. Write the missing numbers under the number line to show how to find  $61 + 34$ .



26. One street has 34 houses. Another street has 28 houses. A third street has 16 houses. How many houses are there in all? Use any strategy. Show your work and explain.

27. Write an equation to solve each part of the two-step problem.

There are 34 people on a bus. At city hall, 15 people get off the bus. Then 6 more people get on the bus. How many people are on the bus now?

\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_

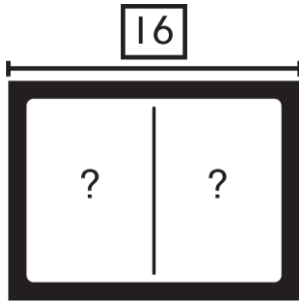
Now there are \_\_\_\_\_ people on the bus.



28. Martin drew this bar diagram. He wants to show that 2 equal parts can make 16.

**Part A**

Draw a picture to show what each “?” stands for.



**Part B**

Change 16 to 18 in the bar diagram. What does each “?” stand for now? Tell how you know.

29. Find  $63 - 48$
30. Simone has 16 more baseball cards than Cole. Simone has 43 baseball cards.
- A. Which equations can you use to find how many baseball cards Cole has? Choose all that apply.
- $43 + 16 = ?$
  - $16 + ? = 43$
  - $43 - 16 = ?$
  - $16 + 16 = ?$
  - $? + 16 = 43$
- B. How many baseball cards does Cole have?  
Cole has \_\_\_\_\_ baseball cards.
31. A. There are 49 green grapes and 12 red grapes in a bowl. Marco eats 24 of the grapes. How many grapes are left in the bowl?  
A 25    C            37  
B 27    D            43
- B. Marco gives 10 grapes to his friend. Which equation shows how many grapes are in the bowl now?  
A  $12 - 10 = 2$   
B  $37 - 12 = 25$   
C  $37 - 10 = 27$   
D  $49 + 12 = 61$

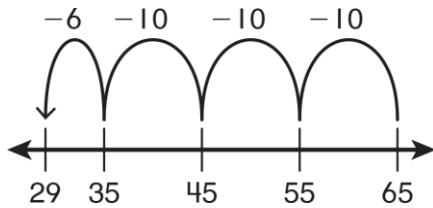
32. A. Raj has these coins. How much money does Raj have? Count on to find the total.



He has \_\_\_\_\_ cents

- B. If he spends a quarter and a nickel, how much money does he have now?  
He will have \_\_\_\_\_ cents

33. Write the equation that the number line shows. Then, explain what the jumps are showing.



34. library. What time does the clock show? Choose all that apply.

- quarter to 4  
 45 minutes past 4  
 30 minutes past 4  
 quarter to 5  
 15 minutes to 5

The clock shows the time Cecilia leaves the



35. Tim needs 87 beads for a school project. He buys 34 beads at the store. His sister gives him 29 beads. How many more beads does Tim need? Write equations to solve. Then write the answer.

\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_

Tim needs \_\_\_\_\_ more beads.

36. Find the missing number that makes each equation true.  
 $29 + \underline{\quad} = 11 + 6 + 16$   
 $47 - 5 = 10 + 20 + \underline{\quad}$

37. There are 42 students in the yard. 17 students leave. How many students are left?

A. Marti adds 3 to 17 to make an easier problem,  $42 - 20$ .

She says 22 students are left. Circle whether you agree or do not agree.

**Agree**      **Do Not Agree**

B. Explain why you agree or do not agree with Marti's strategy.

38. Megan has 28 fewer stickers than Frank. Frank has 97 stickers. How many stickers does Megan have? Solve any way you choose. Show your work.

39. The first clock shows the time Bradley has a snack before his math class. Write the same time on the second clock.

Then circle a.m. or p.m.



a.m.

p.m.

40. Break apart the second addend to find  $91 - 53$ . Show your work.

41. A. Callie has 7 coins. The total value is 88¢. She has 2 quarters, 1 dime, and 3 pennies. Which shows her seventh coin?



**A**



**B**



**C**



**D**

B. Callie wants to buy a piece of candy with the 7 coins she has. The piece of candy costs 35 cents. What coins does she need to give the cashier?

A 2 quarters and 1 dime

C 1 quarter and 1 dime

B 2 quarters

D 2 quarters and 3 pennies

42. Circle the problem that you would use regrouping of place-value blocks to solve. Then draw blocks to show how you know.

$85 - 34$

$64 - 25$

43. Margo has 72 marbles. 19 of the marbles are red. 27 of the marbles are blue. The rest of the marbles are white. How many of the marbles are white?

A 26

C 46

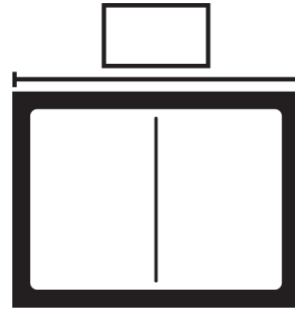
B 45

D 53

44. A park has 5 rows of trees with 4 trees in each row.  
Which equation shows how many trees there are in all?
- A  $5 + 4 = 9$   
 B  $4 + 4 + 4 + 4 = 16$   
 C  $4 + 4 + 4 + 4 + 4 = 20$   
 D  $5 + 5 + 5 + 5 + 5 = 25$

45. Joshua has 65 raisins. He eats 28 of the raisins.  
How many raisins does Joshua have now?  
Show the problem in the bar diagram with a ? for the unknown number. Then write an equation to solve the problem.

\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_ raisins



46. Ms. Valdez has the dollar bills shown at the right.  
How many dollars does Ms. Valdez have?

\$ \_\_\_\_\_



47. At the beach, Chris finds 32 more shells than Darcy. Chris finds 51 shells. How many shells did they find in all?
- A 83                      C 19  
 B 70                        D 78

48. Show how to add up on an open number line to find  $45 + 27$ . Then write the sum below.



$45 + 27 =$  \_\_\_\_\_

49. **Part A**  
Find the sum. Use an addition strategy.  
 $18 + 26 + 34 + 5 =$  \_\_\_\_\_

**Part B**  
Tell how you found the sum.

50. Find the length of the straw to the nearest centimeter. What would be the length of two straws together?



- A 6 centimeters  
 B 10 centimeters  
 C 12 centimeters  
 D 8 centimeters
51. Which equals 100 less than 641? Choose all that apply.

- 741  
  $500 + 40 + 1$   
 541  
  $700 + 40 + 1$   
  $500 + 40$

52. Use the numbers on the cards. Write the missing sums to solve the problems.

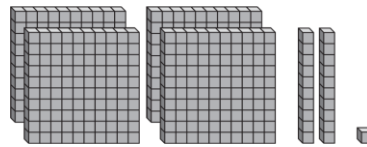


$$42 + 18 = \underline{\quad}$$

$$53 + 32 = \underline{\quad}$$

53. Which is the expanded form of the number shown by the blocks?

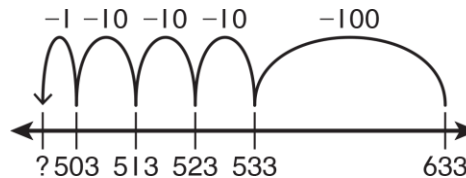
- A 421  
 B  $400 + 20 + 1$   
 C 412  
 D four hundred twenty-one



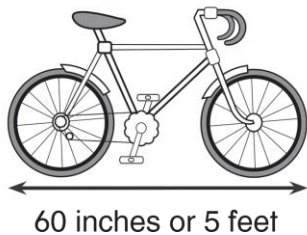
54. What is the value of the 2 in the number 283? What is the expanded form of 283?

55. This open number line shows subtraction. Complete the equation. Write the numbers being subtracted and the difference.

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



56. Aiden measured the length of a bicycle in inches and in feet. Why is the number of feet less than the number of inches?



57. Compare. Write  $<$ ,  $=$ , or  $>$ .

921  918

543  623

58. An art museum has 658 paintings. The museum also has 569 drawings. How many more paintings than drawings does the museum have?

A 89

C 111

B 99

D 189

59. Estimate. About how long is the crayon?

A about 1 meter

B about 15 cm

C about 7 cm

D about 3 cm



60. Isabelle counts 590, 600, 610, 620, 630. By what number does Isabelle skip count?

A 2

C 10

B 5

D 100

61. Natalie has 254 pennies and 10 nickels. How many coins does Natalie have in all?

255

264

354

364

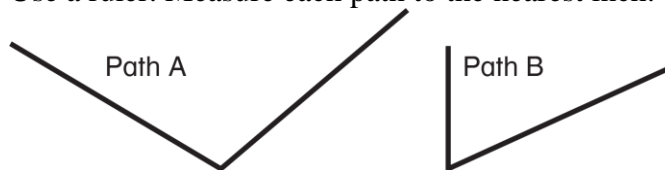
A

B

C

D

62. Use a ruler. Measure each path to the nearest inch.



Which path is longer? \_\_\_\_\_ How much longer? about \_\_\_\_\_ longer

63. Mario puts 153 pebbles in a jar. Sara puts 268 pebbles in the same jar. What is the total number of pebbles in the jar?

Use any strategy. Show your work and explain.

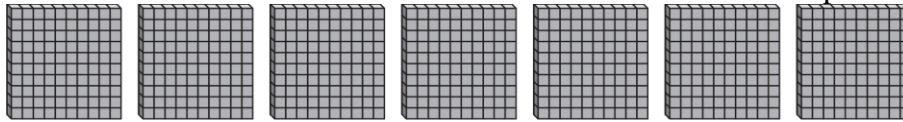
\_\_\_\_\_ pebbles

64. Ella has 58 stickers. James has 9 fewer stickers than Ella. James gives 5 of his stickers to his brother. How many stickers does James have now?
- A 14      C 49  
B 44      D 53

65. Choose all of the problems that you will solve by regrouping if you add using place-value blocks. Draw blocks if needed.

- $23 + 79$   
  $55 + 35$   
  $14 + 27$   
  $46 + 33$   
  $51 + 23$

65. What number does the model show? Write the number and complete the sentence.



\_\_\_\_\_ equals \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, and \_\_\_\_\_ ones.

66. Miguel goes to the library at the time shown on the clock. Choose all of the statements that correctly tell the time Miguel goes to the library.



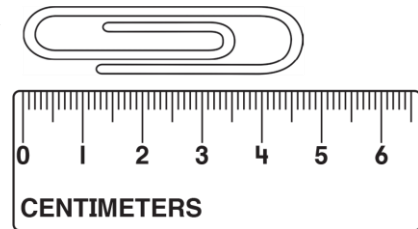
- quarter past 3       15 minutes after 3  
 quarter to 4       45 minutes before 4  
 quarter past 4

67. James has 65 pennies and 18 dimes. How many coins does James have? Break apart the numbers to solve. Show your work.

68. Leon measures a paper clip to the nearest centimeter. What is the length of the paper clip to the nearest centimeter? What would be the combined length of three paper clips?

The length of the paper clip is \_\_\_\_\_ centimeters.

The length of 3 paper clips is \_\_\_\_\_ centimeters.



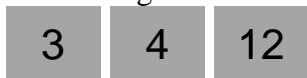
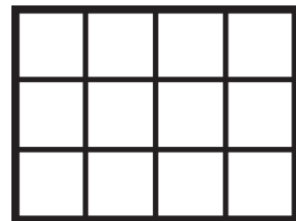
69. Mr. Hom's students collect 438 cans. Ms. Jenson's students collect 343 cans. How many cans do the students collect in all?

Use the open number line to solve. Explain your work.



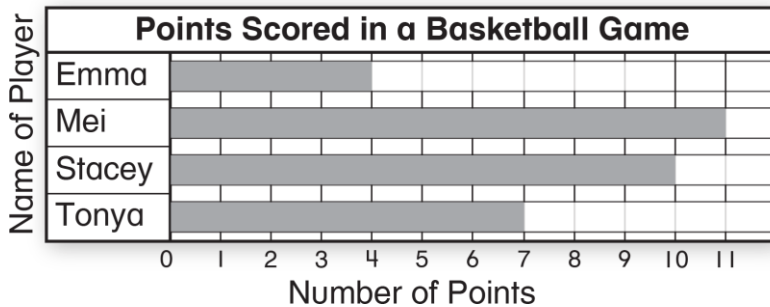
70. Dean draws a polygon with 3 sides and 3 angles. What shape does he draw?  
**A** quadrilateral  
**B** pentagon  
**C** hexagon  
**D** triangle
71. When Kaylie was younger, she was 42 inches tall. Now she is 51 inches tall. How many inches did Kaylie grow?  
**A** 9 in.                      **C** 51 in.  
**B** 11 in.                      **D** 93 in.

72. Count the number of squares in the rows and columns of the rectangle. Use the numbers on the cards to write the missing numbers in the equations.



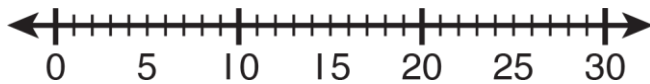
Rows:  $\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$  squares  
 Columns:  $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$  squares

73. How many more points did Stacey score than Emma?

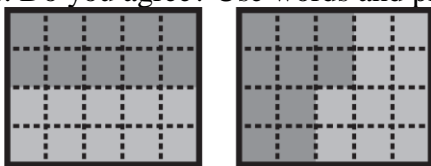


- A** 1                      **B** 5                      **C** 6                      **D** 7

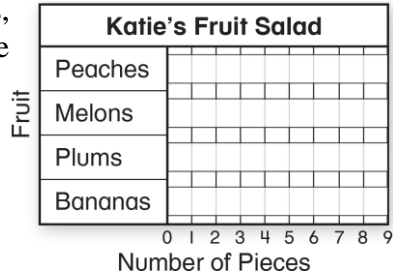
74. David hikes 24 miles on Monday and Tuesday. He hikes 11 miles on Tuesday. Use the number line to find how many miles David hikes on Monday. Then explain your work.



75. Jared says there are only two ways to divide the same rectangle below into 2 equal shares. Do you agree? Use words and pictures to explain.



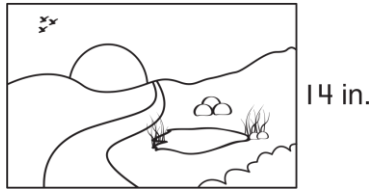
76. Katie is making fruit salad. She has 5 peaches, 2 melons, 8 plums, and 6 bananas. Show these data in the bar graph. Draw the bars. How many more plums does Katie use than melons?



\_\_\_\_\_ more plums

77. Brendan draws a polygon. It has fewer than 6 angles and more sides than a rectangle. Which shape does Brendan draw?
- A triangle  
 B pentagon  
 C hexagon  
 D quadrilateral

78. What is the total distance around the drawing? Use the image below for help.



Distance around:

\_\_\_\_\_ in.

79. Draw lines to show the square with 3 equal shares. Then complete the sentences.

Each share is a \_\_\_\_\_ of the whole.

The whole is \_\_\_\_\_ thirds.



80. Complete the table and the line plot.

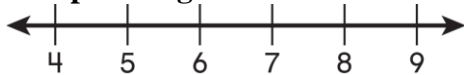
- A. Use a centimeter ruler. Measure the length of the hairpin to the nearest centimeter. Write the length in the table.



Hairpin Lengths in Centimeters			
6	9	8	5
8	8	5	

- B. Use the data in the table to complete the line plot.

**Hairpin Lengths**



Number of Centimeters

What is the difference in length between the longest and shortest hairpins? \_\_\_\_\_ cm

81. Lamar is 50 inches tall. Jack is 3 inches taller than Lamar. Keiko is 5 inches shorter than Jack. How tall is Keiko?

42 inches

**A**

48 inches

**B**

52 inches

**C**

58 inches

**D**

82. Use the table to complete the picture graph.

Season	Number of Students
Spring	3
Summer	5
Fall	4
Winter	2

Each  = 1 student

Favorite Season	
Spring	
Summer	
Fall	
Winter	

Which sentence is true about the picture graph? Choose all that apply.

- 14 students voted in all.
- 3 fewer students voted for spring than summer.
- 2 more students voted for fall than winter.
- 3 more students voted for summer than fall.
- 15 students voted in all.

82. Avery ran 15 miles last week. He runs 11 miles this week. Use the number line to find how far Avery runs in all. Then explain your work.

\_\_\_\_\_ miles

