

**BRIDGEPORT PUBLIC SCHOOLS
MATHEMATICS DEPARTMENT**



MATHEMATICS

SUMMER PACKETS

End of Grade 4 Entering Grade 5

STUDENT NAME: _____

SCHOOL: _____

1. The local school system bought 2726 computers. Then they decided to buy 1000 **more** computers. How many computers did they buy in all?

Answer _____ computers.

2. Which means the same as 39 hundreds?

It is _____.

3. Which means the same as 3147?

- 2 thousands, 14 hundreds, 7 ones
- 3 thousands, 11 hundreds, 47 tens
- 3 thousands, 14 hundreds, 7 tens
- 2 thousands, 11 hundreds, 47 ones

4. In which number does the 5 have the **greatest** value?

- 3265
- 2356
- 2653
- 6532

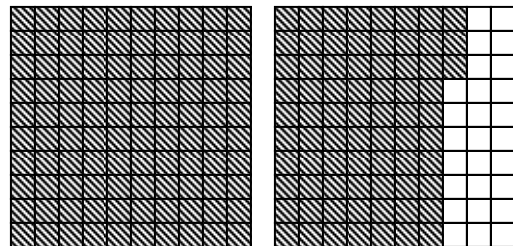
5. The value of 7856 would change by how much if the **8** were replaced by **5**?

It would change by _____ .

6. The value of 2463 would change by how much if **5** replaced **2**?

It would change by _____ .

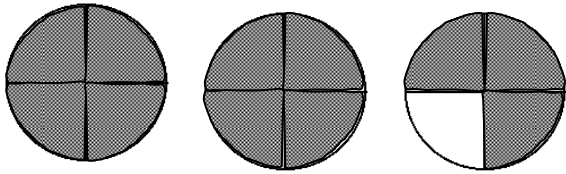
7. The shaded portion of the figures below shows what decimal number?



Each = 0.01

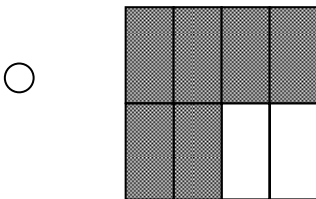
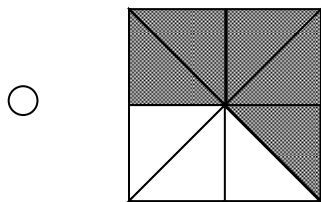
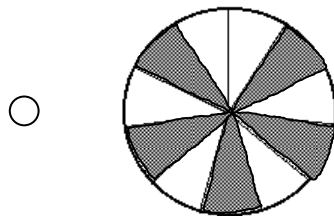
- 0.33
- 1.27
- 1.57
- 1.73

8. The shaded portion of this picture represents what decimal number?

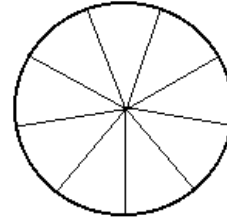


- 3.00
- 2.75
- 2.50
- 2.25

9. Which picture shows $\frac{5}{8}$ shaded?



10. Shade in $\frac{3}{9}$ of the figure below.



This table gives the populations of four Connecticut towns in 1998. Use the table to answer question 11.

Town	Population
Durham	6555
Easton	6745
Haddam	7210
Woodstock	6580

11. If the towns were listed in order from **greatest to least**, the town with the **greatest** number would be first. Which town would be fourth on the list?

The town of _____ would be fourth on the list.

12. The table below shows the average wind speeds at various US weather stations.

City	Average Speed (mph)
Spokane, WA	8.9
Washington, D.C.	9.4
Chicago, IL	10.4
Hartford, CT	8.4

New York City's average wind speed is greater than Spokane's and less than Washington's. Which could be New York City's average wind speed?

- 8.7
- 9.3
- 9.7
- 10.3

13. King Kong was 7.31 meters tall. Which **best** describes his height?

- About $6\frac{1}{2}$ meters tall
- A little more than 6 meters tall
- A little less than 7 meters tall
- Almost $7\frac{1}{2}$ meters tall

14. Zach used $3\frac{5}{8}$ ounces of rubber cement. Which **best** describes this amount?

- About $2\frac{1}{2}$ ounces
- A little less than 3 ounces
- About $3\frac{1}{2}$ ounces
- A little more than 4 ounces

USE THE FOLLOWING INFORMATION TO ANSWER QUESTION 15.

The museum director made the chart below to show the attendance on Saturdays in December.

DATE	ATTENDANCE
Dec. 1	8086
Dec. 8	4299
Dec. 15	3963
Dec. 22	1042
Dec. 29	8795

15. **About** how many people attended the museum on a Saturday in December?

About _____ people attended.

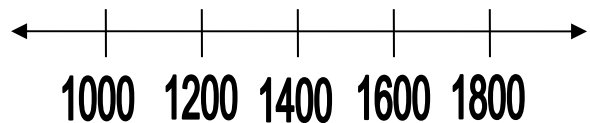
16. A Pacific leatherback turtle weighed 704.2 kilograms. This number is **closest** to

- 704 kg
- 705 kg
- 706 kg
- 707 kg

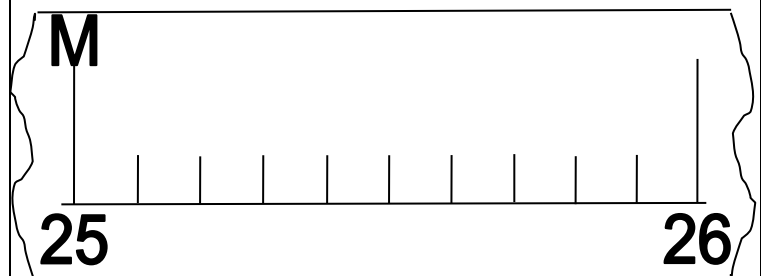
The table below shows the model kits sold for one year.

MODEL KIT SALES FOR ONE YEAR	
KIND OF KIT	NUMBER OF KITS SOLD
Ship	1007
Sports Car	1682
Jet Plane	1495
Motorcycle	1239

17. Draw and circle a black line on the number line to show how many jet plane kits were sold.



18. Draw a black line that best represents 25.88 meters on the ruler below.



19. Write a story problem that can be solved using the number sentence $48 \div 3 = \square$.

RECORD AND BUBBLE IN YOUR ANSWERS TO PROBLEMS 20 THROUGH 24.

20. $7 \times 7 = \square$.

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

22. Solve this problem.

$$\begin{array}{r} 9876 \\ - 6789 \\ \hline \end{array}$$

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

23. Solve this problem.

$$\begin{array}{r} 246 \\ 357 \\ + 456 \\ \hline \end{array}$$

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

21. $24 \div 8 =$

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

RECORD AND BUBBLE IN YOUR ANSWERS TO PROBLEMS 24 and 25.

24. $\$8.38 \times 7 =$

\$				•		
	0	0	0		0	0
	1	1	1		1	1
	2	2	2		2	2
	3	3	3		3	3
	4	4	4		4	4
	5	5	5		5	5
	6	6	6		6	6
	7	7	7		7	7
	8	8	8		8	8
	9	9	9		9	9

RECORD AND BUBBLE IN YOUR ANSWERS TO PROBLEMS 26 THROUGH 27.

26. Traci earns \$5.75 per hour babysitting. How much money would she earn in 8 hours?

\$				•		
	0	0	0		0	0
	1	1	1		1	1
	2	2	2		2	2
	3	3	3		3	3
	4	4	4		4	4
	5	5	5		5	5
	6	6	6		6	6
	7	7	7		7	7
	8	8	8		8	8
	9	9	9		9	9

25. $934 \div 6 =$

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

27. Shamika and Maya played computer games. Shamika made 1430 points and won. Maya lost by 290 points. Shamika also bought 25 pounds of dog food. What was Maya's score?
(Show your work.)

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

28. Jazmine needs to subtract 27,241 from 62,739. Which of the following would be **best** for Jazmine to use to **estimate** the difference?

- 60,000 – 20,000
- 60,000 – 30,000
- 70,000 – 20,000
- 70,000 – 30,000

29. Shanika needs to subtract 5.2 from 9.7. Which of the following would be **best** for Shanika to use to **estimate** the difference?

- 9 – 6
- 9 – 5
- 10 – 5
- 10 – 6

30. Alicia ran 5,230 meters in a charity race. Elena ran 4,925 meters. **About** how many meters did the two girls run?

- less than 10,000
- more than 10,000
- less than 9,000
- more than 9,000

31. The sixth graders collected between 3000 and 4000 pennies every month for 9 months. **ABOUT** how many pennies could they have collected?

- 10,000
- 20,000
- 30,000
- 40,000

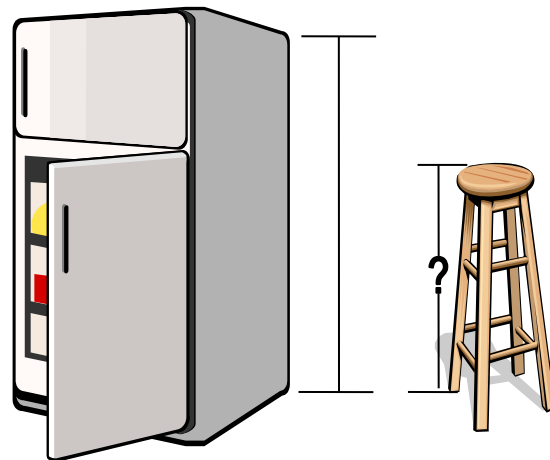
32. During last winter, it snowed between 3 and 6 inches a day for 18 days. **About** how many inches of snow could have fallen?

- 100
- 125
- 150
- 175

33. A cruise ship sailed at sea for 96 hours. How many days is that?

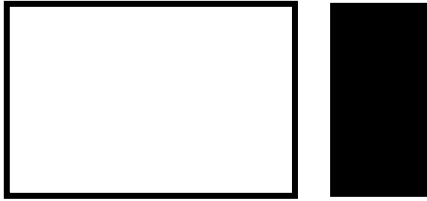
It's _____ days.

34. If the refrigerator is 60 inches high, **about** how tall is the stool?



About _____ inches.

35. If the shaded figure is 32 square inches, **about** how large is the larger figure?



It is about _____ square inches.

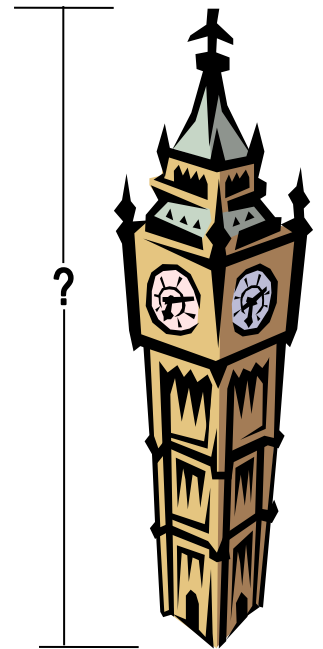
36. If the shaded area is 24 square units, **about** how large is the large white area?



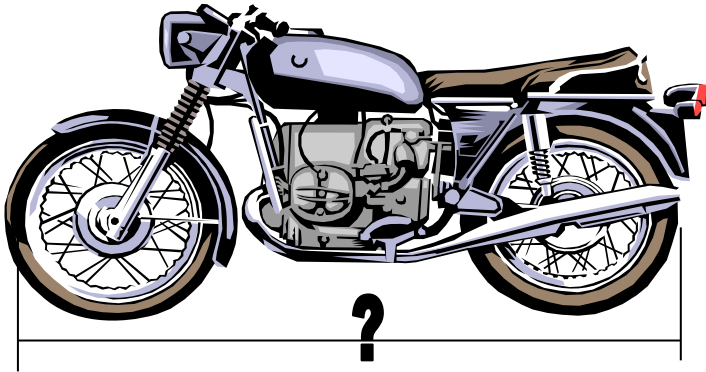
It is _____ square units.

37. Use a ruler to measure the height of Big Ben, the clock tower shown below, to the nearest half-centimeter.

- 8.0 cm
- 8.5 cm
- 9.0 cm
- 9.5 cm

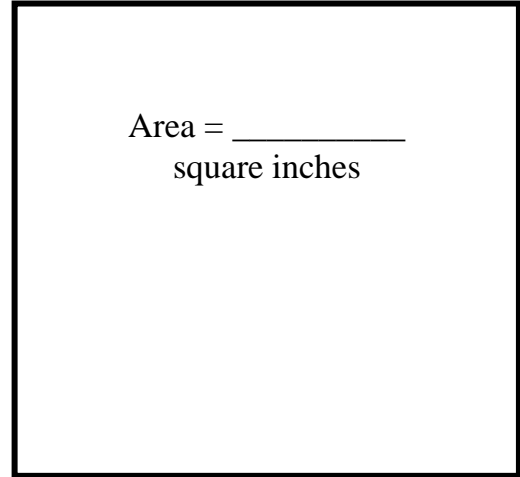


38. Use a ruler to measure the length of the motorcycle to the nearest half-inch.

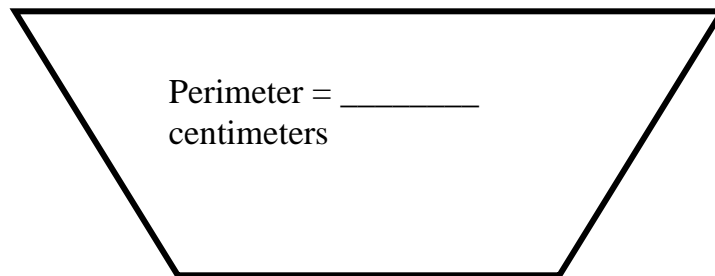


- 4 inches
- $4\frac{1}{2}$ inches
- 3 inches
- $3\frac{1}{2}$ inches

39. Use a ruler to measure the length of each side of the shape below to the nearest half-inch. Write the lengths next to each side. Inside the shape, write the **area** in square inches.



40. Use the ruler at the bottom of page 16 of this booklet to measure the length of each side of the shape below to the nearest half-centimeter. Write the lengths next to each side. On the line inside the shape, write the **perimeter** of the shape in centimeters. Then **write** a sentence (or more) explaining how you found the perimeter.



Explanation: _____

41. What is the **best** unit to measure the amount of water in a swimming pool?

- gallon
- pint
- quart
- fluid ounce

42. The distance from Boston to New York City would **best** be measured in

- meters
- kilometers
- centimeters
- millimeters

43. A pole is 520 centimeters tall. How many meters is that?

- 0.52
- 5.20
- 52.0
- 520.0

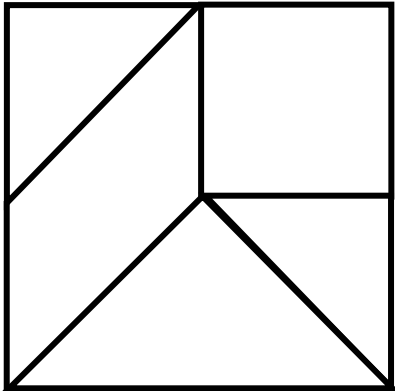
44. The distance from Ray's house to school is 3000 meters. How many kilometers is that?

				●		
0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

45. When Mrs. Rivera measured the top of her desk, she found out it was 70 inches across. How many feet is that?

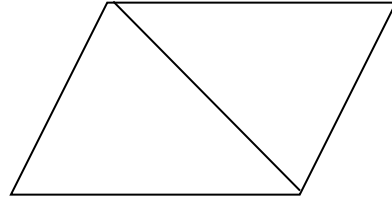
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

46. The figure below is made up of which shapes?



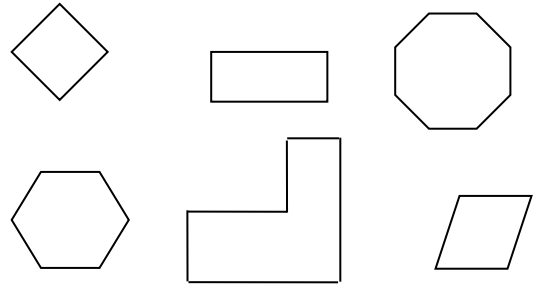
- 3 squares, 1 rectangle, 1 parallelogram,
- 3 triangles, 1 rectangle, 1 rhombus
- 3 triangles, 1 trapezoid, 1 rhombus
- 3 triangles, 1 square, 1 parallelogram

47. What shape is formed by these two figures?

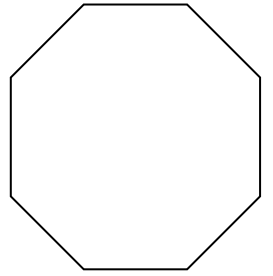
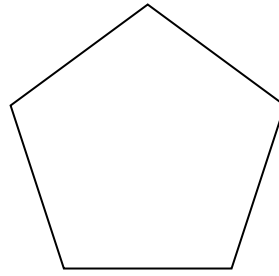
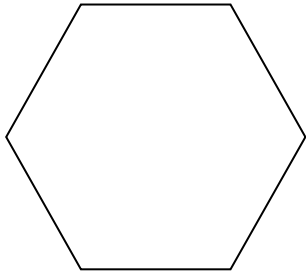
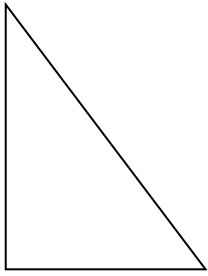


It is a _____.

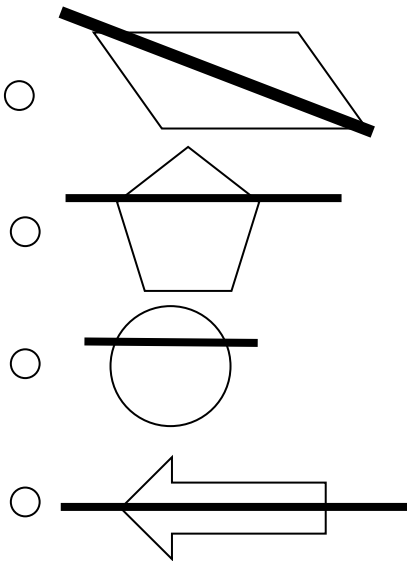
48. Circle the **quadrilaterals**. Then **write** a sentence (or more) explaining why the shapes you circled are all quadrilaterals.



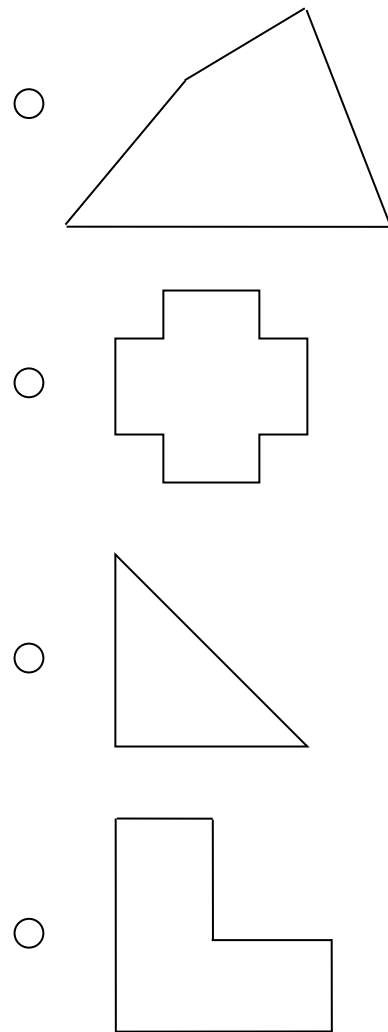
49. Draw a hexagon inside the pentagon.



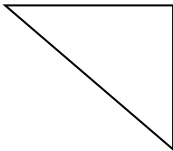
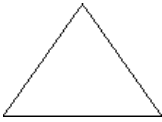
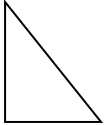
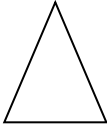
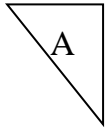
50. Which figure has been drawn correctly with one line of symmetry?



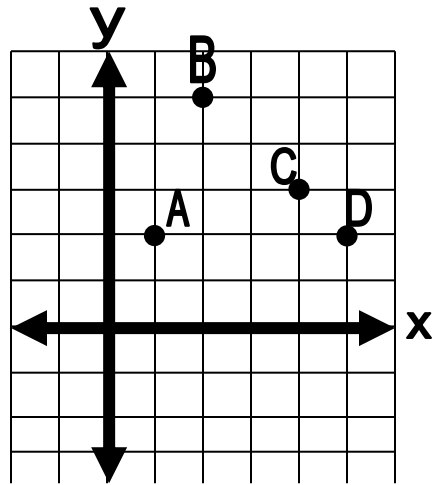
51. Which figure below has more than one line of symmetry?



52. Which figure is congruent to figure A below?



54. What letter is located at (2, 5)?



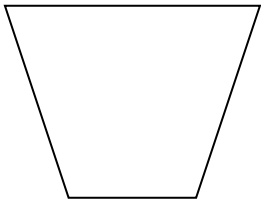
A

C

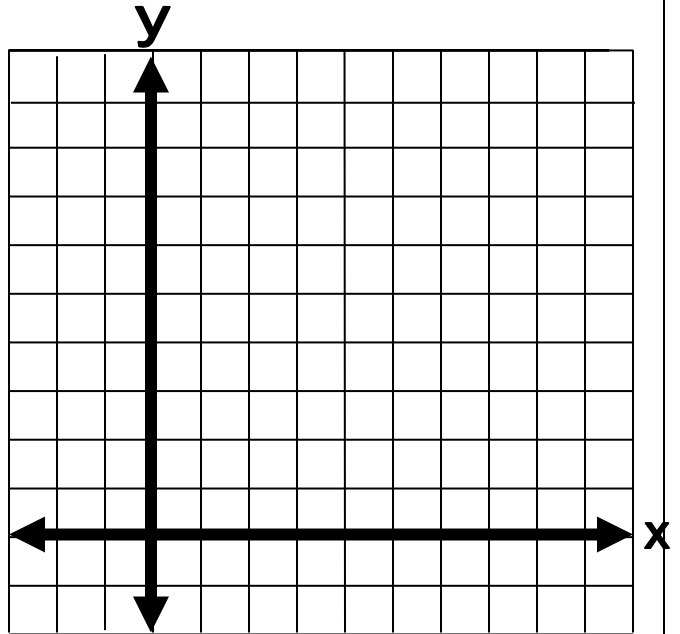
B

D

53. Draw another shape congruent to the first shape. Then WRITE a sentence (or more) explaining why the two shapes are congruent to each other.



55. Write the letter A at point (3, 6)



The graph shows how many shirts were sold during the week.

SHIRTS ON SALE	
Days	Number of Shirts
Monday	J
Tuesday	J J J
Wednesday	J J J J
Thursday	J J J J J J
Friday	J J

J = 25 Shirts

56. Which two days sold a total of 225 shirts?

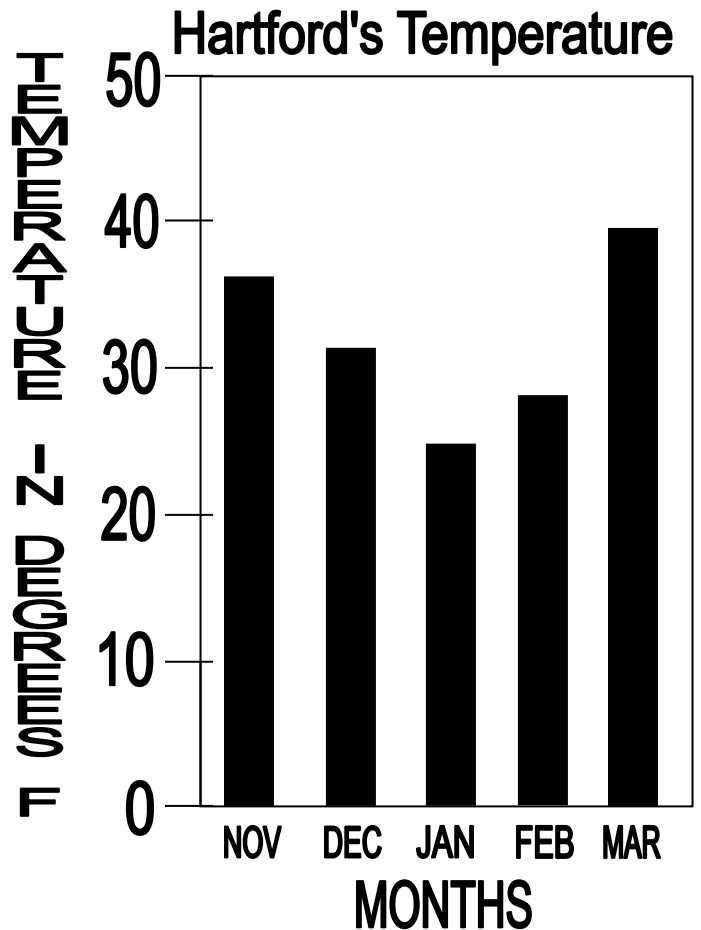
- Monday and Wednesday
- Tuesday and Friday
- Monday and Thursday
- Tuesday and Thursday

The table shows the number of people living in Connecticut cities.

City	Number of People
Bristol	60,722
Fairfield	58,407
Hamden	58,626
Meriden	58,962
Manchester	55,390

57. Which cities have populations **greater** than 57,500?

The bar graph below shows the average monthly temperatures for Bridgeport, CT from November to March.

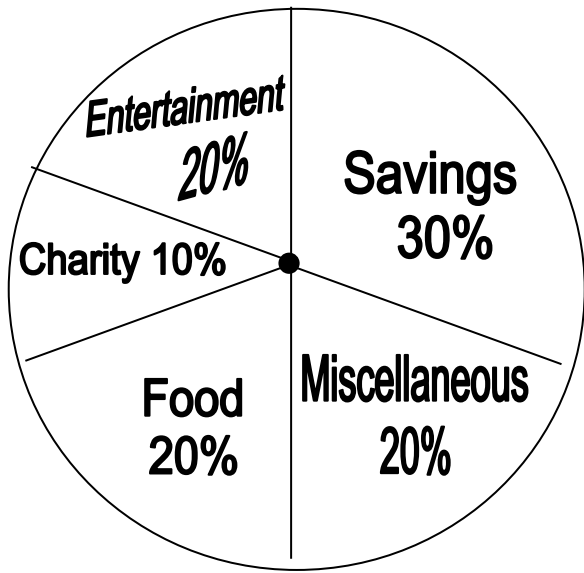


58. Based on the graph, what would you expect the average temperature in Bridgeport to be in April?

It would be approximately

_____ degrees.

Ned made this circle graph to show his parents how he spends his \$10.00 weekly allowance.



59. Which statement is a **reasonable** conclusion from the data on the graph?

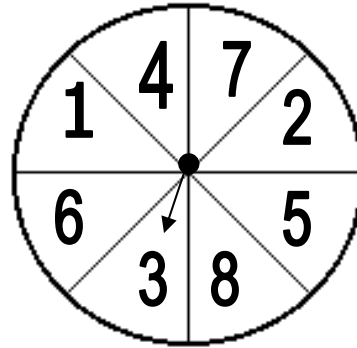
- Ned spends more on charity than on food.
- Ned spends more on entertainment than on miscellaneous items.
- Ned spends less on food than on savings.
- Ned spends equal amounts on entertainment and on savings.

60. Which number is missing in the table?

Input	Output
3	10
4	13
6	19
8	25
9	

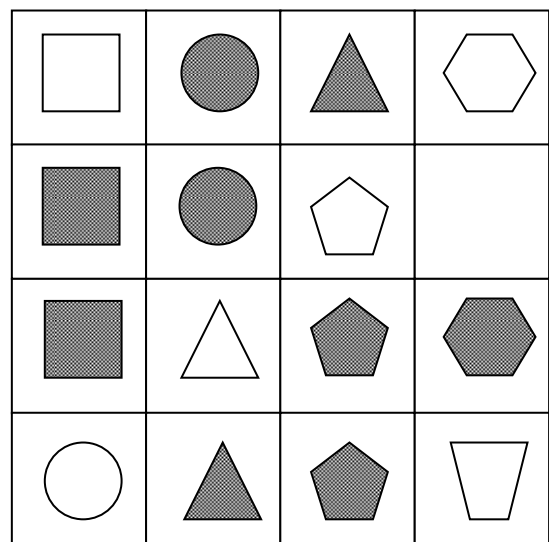
The missing number is _____.

61. Tomas and José used the spinner below to play a game. If the arrow lands on an even number, Tomas gets 1 point. José gets 1 point if the arrow lands on an odd number. Is this fair?

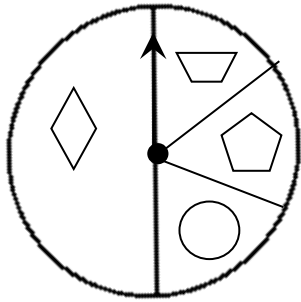






- Yes, because José spins first.
- No, because the arrow is most likely to land on an even number.
- No, because the arrow is most likely to land on an odd number.
- Yes, because the probabilities are equal.

62. Draw the missing figure in the empty box?



63. If the spinner below is spun 90 times, how many times would you expect the spinner to land on each shape? Write the correct number on each blank space. Then write a sentence (or more) to explain how you determined the answers.

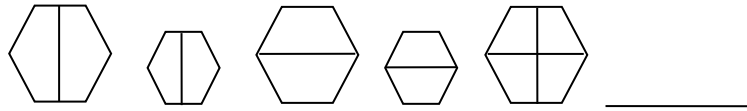


 = _____ times
 = _____ times
 = _____ times
 = _____ times

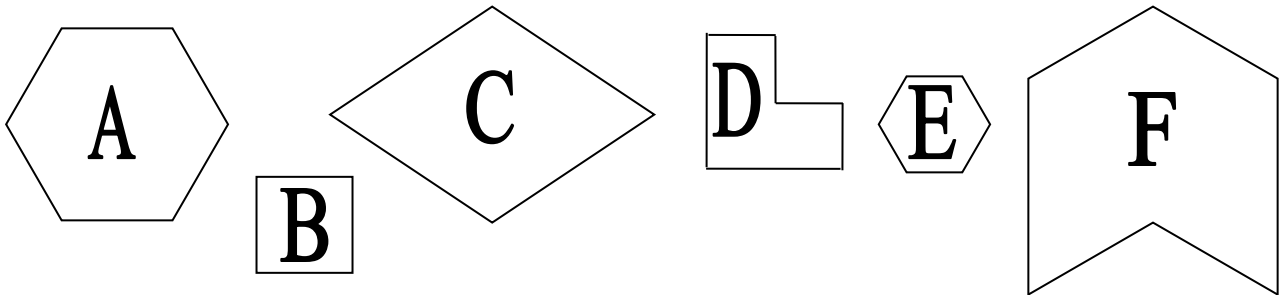
64. What number is next in this sequence? **Write** the number. Then **write** a sentence that explains how you decided on which number to write.

140, 115, 90, 65, _____

65. What shape is next in this sequence? **Draw** the next shape. Then **write** a sentence that explains how you determined your answer.



66. Sort all 6 of these figures into 2 groups so that the figures in each group have something in common. Show how you grouped the figures by writing the **letter** of each figure inside the boxes labeled Group 1 and Group 2. Then write a sentence (or more) that tells how you decided to group the figures.



Group 1	Group 2

67. What is the value of \square in the equation below?

$$\square - 62 = 62$$

Answer _____.

68. Which number sentence is part of the same **family of facts** as the number sentence below?

$$456 - \square = 234$$

- $456 - 234 = \square$
- $456 + \square = 234$
- $234 - \square = 456$
- $\square + 456 = 234$

69. Andy, Bill, Casey and David raced to the park.

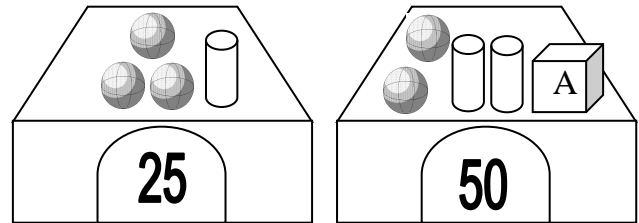
- Andy arrived after Casey.
- Bill got there after David but before Casey

Who got to the park first?

_____ got to the park first.

Use the picture below to solve problem 117.

Hint: The same shapes are equal in weight.



70. How much does Cube A weigh?

- 10 pounds
- 15 pounds
- 20 pounds
- 25 pounds

71. Stacy, Jack, Ann, and Tim have different color hair.

- One has red hair;
- One has brown hair;
- One has blond hair; and
- One has black hair.
- One girl has brown hair.
- Ann has blond hair.
- Tim does not have red hair.

Who has black hair?

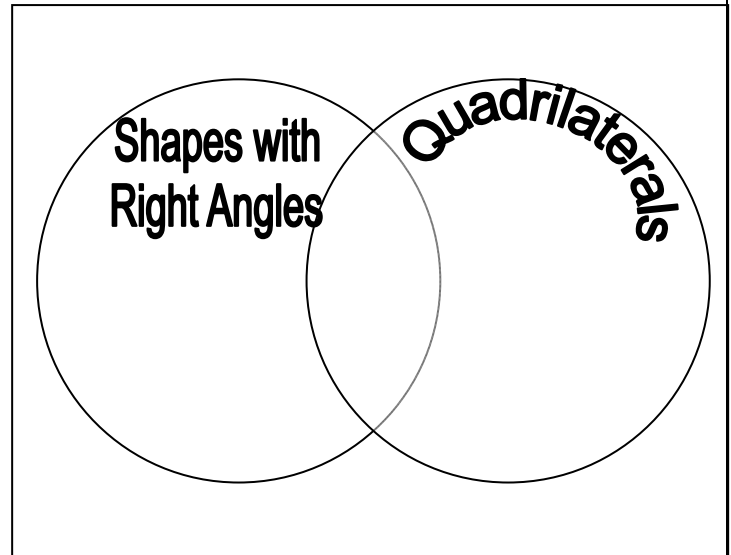
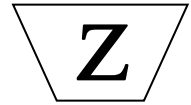
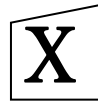
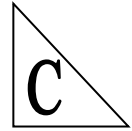
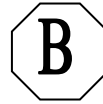
_____ HAS BLACK HAIR.

72. Use the clues to figure out the mystery 5-digit number.

- It is greater than 50,000 and less than 60,000.
- The hundreds digit is the largest digit.
- It reads the same forwards and backwards.

- 45,656
- 54,920
- 56,765
- 58,175

73. Write the letter for each shape inside or outside the Venn diagram.



75. Mr. James is planning a trip to the *National Air and Space Museum* in Washington, D.C. Some of the activities available are:

- Langley Imax® Theater – 27 minutes/film
 - "To Fly" – shown at 9:30, 10:20, 11:40, 1:05, 3:15, 4:40
 - "Solar Max" – shown at 10:55 and 1:40
 - "Adventures in Wild California" – shown at 12:15, 2:25, 3:50, 5:15
- First Floor Galleries
 - Milestones of Flight
 - Lunar Exploration Vehicles
 - Voyager Aircraft
- Second Floor Galleries
 - Exploring the Planets
 - Flight Enters the Computer Age
 - Apollo to the Moon

Plan a day at the *National Air and Space Museum*.

- Begin at 9:00 AM, and leave at 3:00 PM.
- Include a 60 minute lunch break.
- Include at least 30 minutes at the Museum Store.
- Include at least 1 of the films.
- Spend at least 2 hours at the First Floor and the Second Floor Galleries.

Complete the schedule below that shows your plan.

TIME	ACTIVITY
8:50	Arrive at Museum
9:00	
9:30	
10:00	
10:30	
11:00	
11:30	
12:00	
12:30	
1:00	
1:30	
2:00	
2:30	
3:00	Leave <i>National Air and Space Museum</i>