

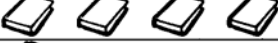





(19A)

Use the graph to answer questions 10 and 11

Number of Books Read
by Jay

January	
March	
May	
July	
September	

Let  = 2 books.

10. How many books did Jay read in May?

- 4
 6
 8
 10

11. In which month did Jay read more than 4 books but less than 8 books?

- January
 September
 March
 May

(19A)

Use the chart to answer question 12.

Average Rainfall for Cape Cod	
MONTH	INCHES
January	5
February	4
March	5
April	4
May	4
June	3
July	3
August	3
September	3
October	3
November	4
December	4

(19A)


12. How many months had more than 3 inches of rain?

- 4
 7
 10
 12

13. Complete the **pictograph** using the following data.

(19B)

Students Who Wear Glasses	
3 rd Grade Girls	5
4 th Grade Girls	7
3 rd Grade Boys	2
4 th Grade Boys	3

Let  = 1 pair of glasses.

Students Who Wear Glasses

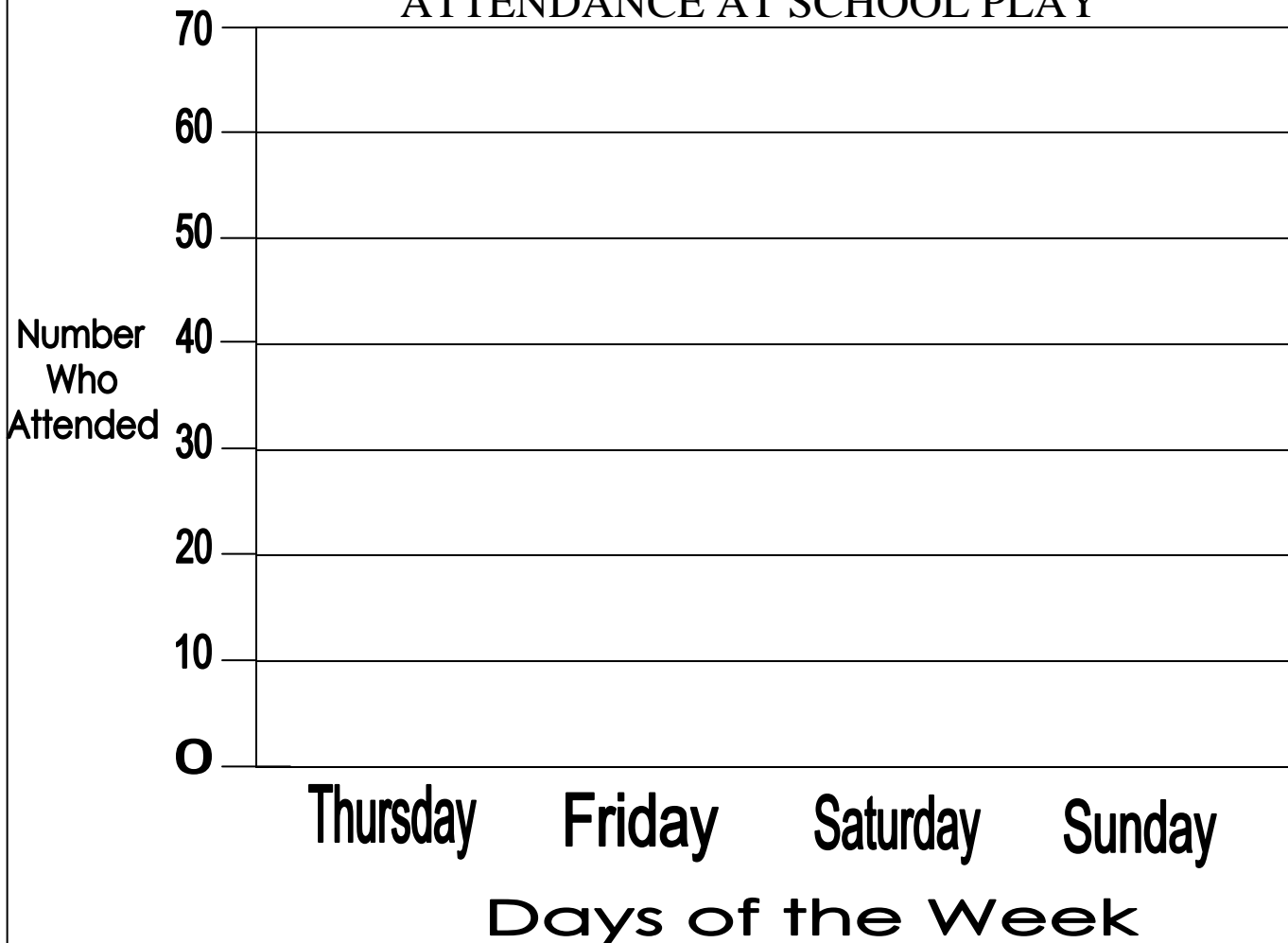
(19B)

14. Many people went to see the school play. Complete the **bar graph** using the following information. Do **not** shade the bars.

ATTENDANCE AT
SCHOOL PLAY

Day of the Week	Number Who Attended
Thursday	35
Friday	20
Saturday	40
Sunday	60

ATTENDANCE AT SCHOOL PLAY



(25A)

15. Five of the Seven Dwarves are filling bags with food for Snow White's Homeless Shelter. They plan to fill at least 30 bags. The chart shows how many bags each person can fill in one hour.

FILL THE FOOD BAGS	
Sneezy	1
Sleepy	2
Doc	2
Grumpy	3
Bashful	3

They plan to work for at least 20 hours in all. No dwarf may work more than 10 hours.

Use the information from the table to make a plan to fill the bags. In the chart:

- write the number of hours each dwarf worked
- write the number of bags each dwarf filled
- make sure that each dwarf worked no more than 10 hours
- include at least 3 dwarves
- make sure they worked no more than 40 hours in all
- be sure that no more than 70 bags are filled

Show your work.

NAMES	NUMBER OF HOURS	NUMBER OF BAGS FILLED
Sneezy		
Happy		
Doc		
Grumpy		
Bashful		
TOTALS		

Topic 10: Collecting and Analyzing Data
Revised: December 1, 2005

- 9A/9B: Solve simple story problems involving addition and subtraction, with or without extraneous information
- 19A: Identify correct information from tables and charts
- 19A: Identify correct information from pictographs
- 19B: Create pictographs from data in tables and charts
- 19B: Create bar graphs from data in tables and charts (Do not shade the bars.)
- 25A: Solve extended numerical and statistical problems.

ANSWERS

(9A)

1. Rudy saved \$41 to buy a cordless phone for \$95. How much more money does he need?

\$ 54 ***

\$ 56

\$ 134

\$ 136

(9A)

2. Nolan paid 14 bills in January. He paid 7 bills in February. How many bills did he pay in all?

3

7

21 ***

84

(9A)

3. There were 46 red cars in the parking lot. There were also 32 black cars. How many cars were in the parking lot altogether?

14

18

74

78 ***

(9B)

Use the table to answer question 4.

Cookies Sold in One Week

Type of Cookie	Number Sold
Chocolate Chip	99
Oatmeal Raisin	28
Pumpkin	32
Peanut Butter	46

4. How many chocolate chip and pumpkin cookies were sold?

67

78

127

131 ***

(9B)

5. Angela bought a new watch for \$29. She also bought a new hat for \$48. She paid with a \$100 bill. How much money did she spend?

\$ 77 ***

\$ 93

\$138

\$156

(9B)

6. George had 15 winter hats and 12 winter coats. Martha had 48 winter hats and 29 winter coats. How many more winter hats did Martha have than George?

- 17
- 33 ***
- 41
- 63

(19A)

All of Mrs. Polygon's students filled out a survey about their favorite shape to draw. Use the survey chart to answer question 7.

7. How many children are in Mrs. Polygon's class?

FAVORITE SHAPE	NUMBER OF VOTES TO DRAW
6.....	square
8.....	rectangle
7.....	triangle
3.....	hexagon
5.....	parallelogram

6.....square

8.....rectangle

7.....triangle

3.....hexagon

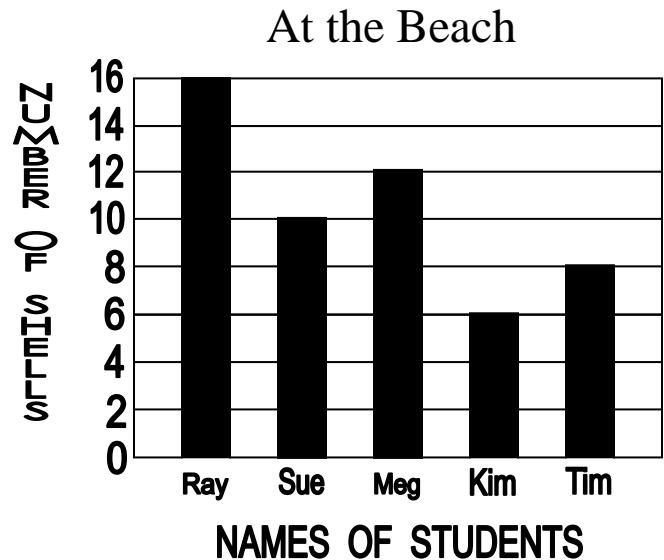
5.....parallelogram

- 8
- 10
- 21
- 29 ***

(19A)

Last summer 5 friends collected shells at the beach. The graph shows how many shells each friend collected.

Use the graph to answer questions 8 and 9.



8. The total number of shells collected by Sue and Tim was

- 10
- 16 ***
- 22
- 26



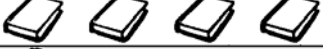


9. If Sue collected 10 more shells, how many shells would she then have?


- 16
- 20 ***
- 22
- 26

(19A)

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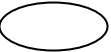
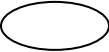
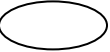





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4 th Grade Girls	      
3 rd Grade Boys	 
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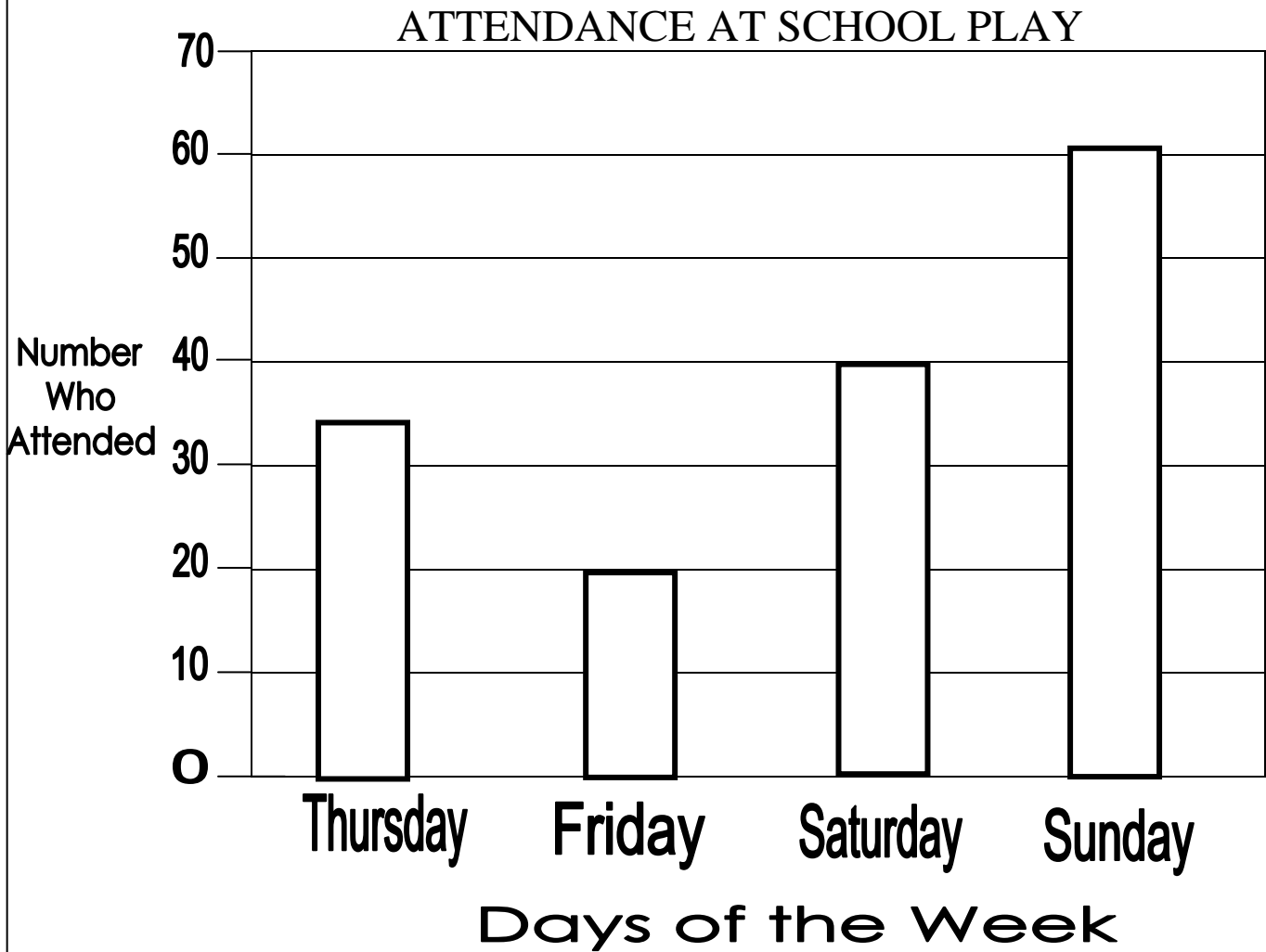
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Show your work.

One Possible Solution		
	Hours	Bags
Sneezy	10	10
Happy	-	-
Doc	-	-
Grumpy	10	30
<u>Bashful</u>	<u>10</u>	<u>30</u>
TOTALS	30	70

One Possible Solution		
	Hours	Bags
Sneezy	10	10
Happy	10	20
Doc	10	20
Grumpy	-	-
<u>Bashful</u>	<u>-</u>	<u>-</u>
TOTALS	30	50

One Possible Solution		
	Hours	Bags
Sneezy	10	10
Happy	10	20
Doc	10	20
Grumpy	5	15
<u>Bashful</u>	<u>-</u>	<u>-</u>
TOTALS	35	65

One Possible Solution		
	Hours	Bags
Sneezy	10	10
Happy	10	20
Doc	5	10
Grumpy	-	-
<u>Bashful</u>	<u>10</u>	<u>30</u>
TOTALS	35	70