

TEST NAME: **graphing**
TEST ID: **3222670**
GRADE: **03 - Third Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____
Class: _____
Date: _____

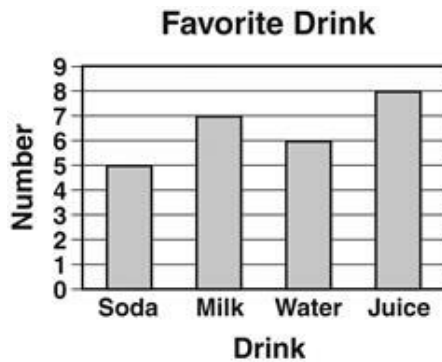
1. **Bradley took a survey of his classmates to determine their favorite type of drink. The chart below shows the data that Bradley collected.**

Favorite Drink

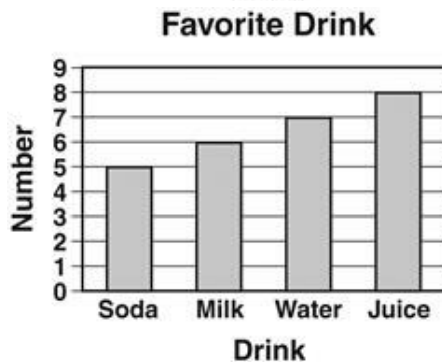
Drink	Number
Soda	8
Milk	6
Water	7
Juice	5

Which graph matches the results from the table?

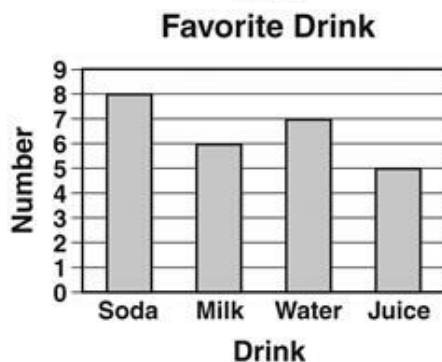
A.



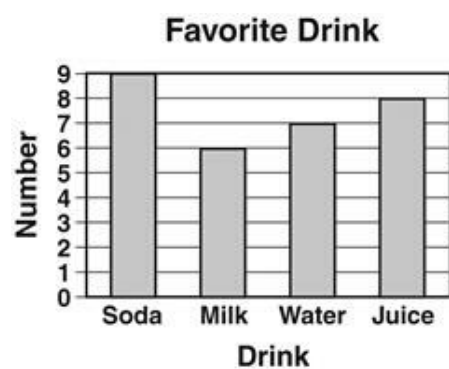
B.



C.



D.

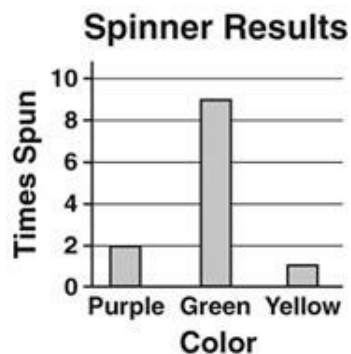


2. Jason spun a spinner 12 times. He recorded his results on a tally chart.

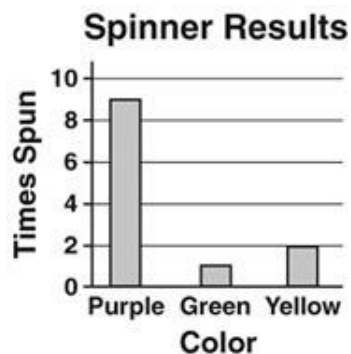
Spinner Results	
Color	Times Spun
Purple	
Green	
Yellow	

Which bar graph matches Jason's tally chart?

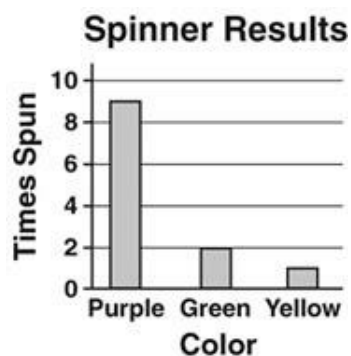
A.



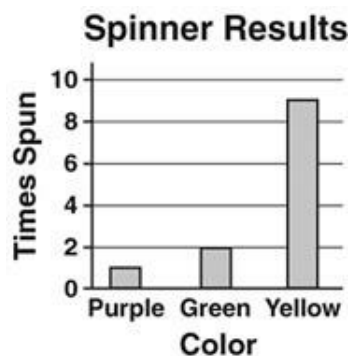
B.



C.



D.



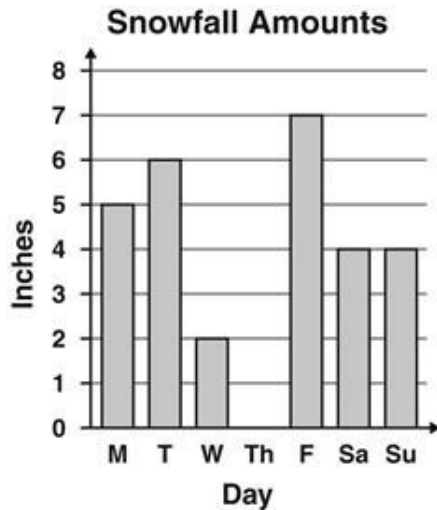
3. Joey recorded daily snowfall amounts for one week in the table.

Daily Snowfall

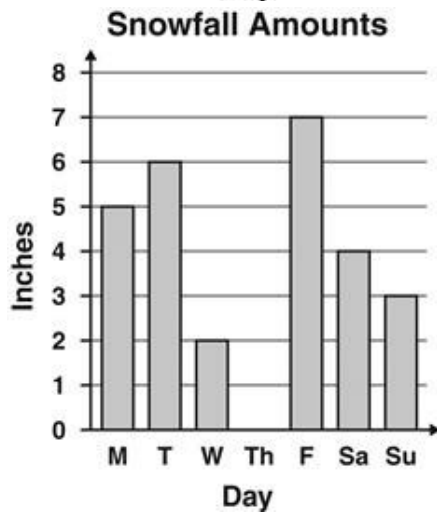
Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Snowfall (inches)	5	6	2	0	7	4	3

Which graph BEST represents the information Joey recorded?

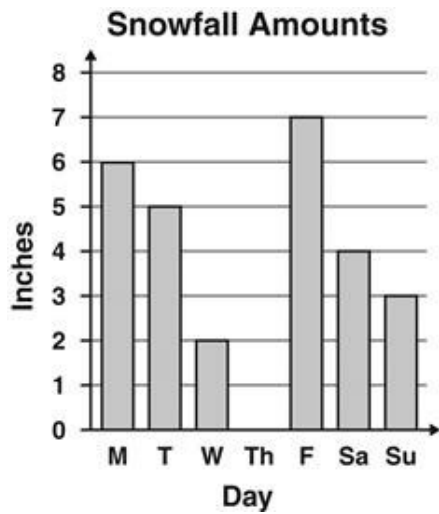
A.



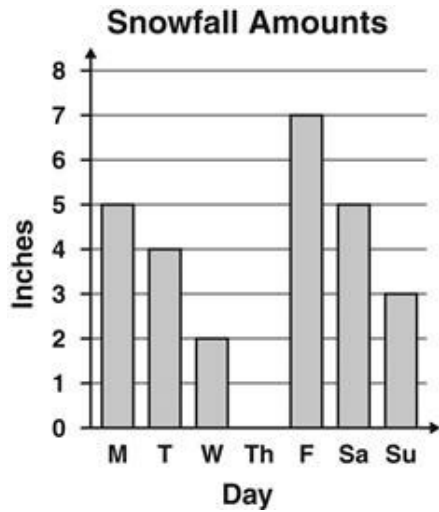
B.



C.



D.



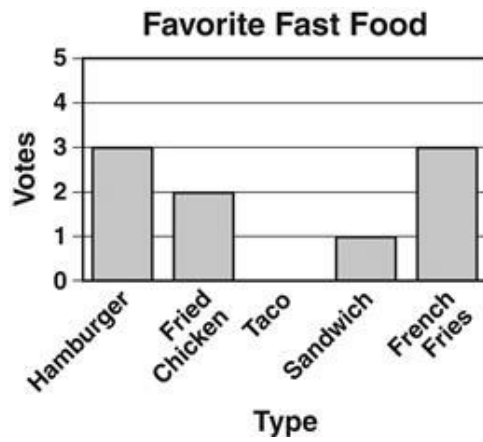
4. LeeAnn took a survey based on her family members' favorite fast foods. The table shows the results.

Favorite Fast Food

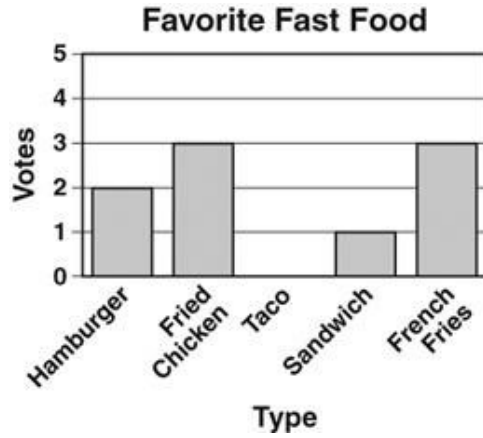
Type	Votes
Hamburger	2
Fried Chicken	3
Taco	0
Sandwich	1
French Fries	3

Which graph matches the results shown in the table?

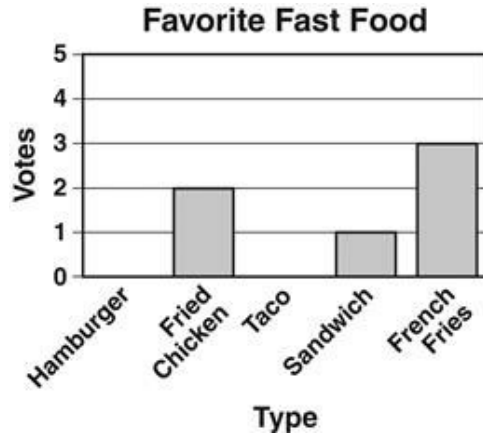
A.



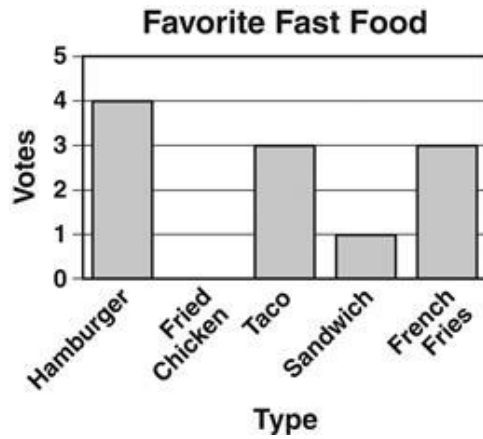
B.



C.



D.



5. Tia tossed a number cube and got these results.

1, 1, 2, 2, 3, 4, 5, 5, 5, 6

Which tally chart correctly shows her results?

A.

Number Cube	
Number	Times
1	
2	
3	
4	
5	
6	

B.

Number Cube	
Number	Times
1	
2	
3	
4	
5	
6	

C.

Number Cube	
Number	Times
1	
2	
3	
4	
5	
6	

D.

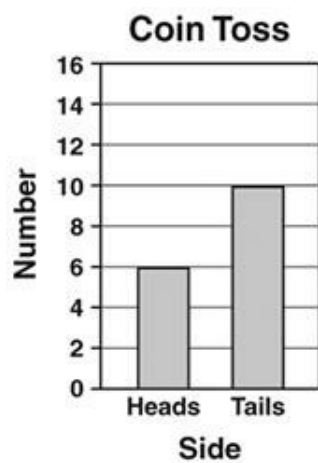
Number Cube	
Number	Times
1	
2	
3	
4	
5	
6	

6. Jim flips a fair coin 16 times and records the results in the tally chart.

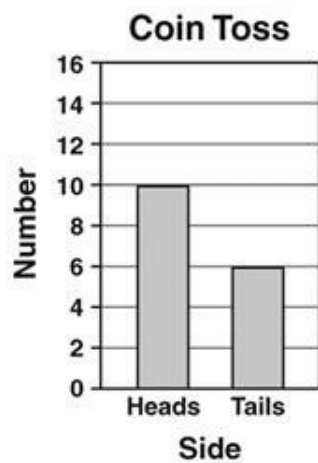
Coin Toss	
Heads	
Tails	

Which graph BEST represents the results from the tally chart?

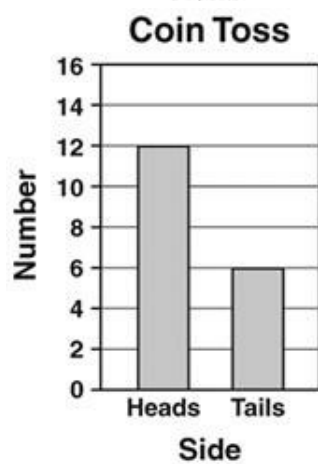
A.



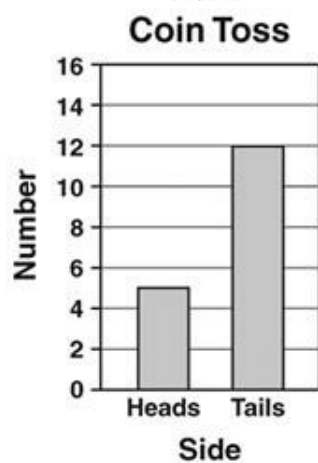
B.







C.







D.



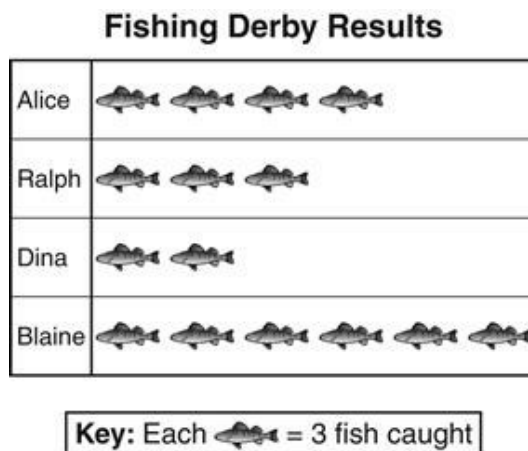
7. Cleo made the pictograph to display the information from the table.

Newspapers Delivered		Newspapers Delivered	
Day	Number of Papers	Day	Number of Papers
Monday	500	Monday	
Tuesday	650	Tuesday	
Wednesday	400	Wednesday	
Thursday	550	Thursday	

Which key should be used for Cleo's pictograph?

- A. **Key:**
 = 1
- B. **Key:**
 = 10
- C. **Key:**
 = 50
- D. **Key:**
 = 100

8. The graph below shows the results of a fishing derby.



Which table correctly shows the information in the graph?

A. **Fishing Derby
Results**

Person	Number of Fish Caught
Alice	4
Ralph	3
Dina	2
Blaine	6

B. **Fishing Derby
Results**

Person	Number of Fish Caught
Alice	12
Ralph	9
Dina	6
Blaine	18

C. **Fishing Derby
Results**

Person	Number of Fish Caught
Alice	8
Ralph	6
Dina	4
Blaine	12

D. **Fishing Derby
Results**

Person	Number of Fish Caught
Alice	12
Ralph	9
Dina	4
Blaine	12

9. Kyle asked 20 people if they watch television on Saturday morning. He used this table to record their answers.

Saturday Morning TV	
Answer	Number
YES	7 111
Sometimes	7 1
NO	111

Which graph BEST represents the information in the table?

A. **Saturday Morning TV**



B. **Saturday Morning TV**



















C. **Saturday Morning TV**




D. **Saturday Morning TV**
























10. Look at the information below. Nine students chose cookies and cream ice cream.

Ice Cream Survey	
Flavor	Number of Students
Chocolate	       
Vanilla	     
Strawberry	 
Cookies and Cream	

Key:  = 2 students

What should the graph show for this flavor?

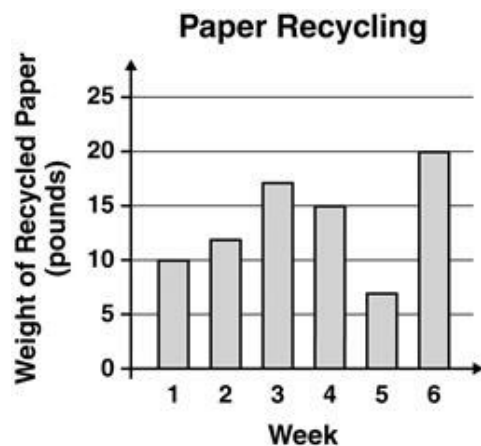
- A.      
- B.     
- C.      
- D.    

11. Students in a 5th-grade class kept a record of how much paper they collected for recycling over a 6-week period.

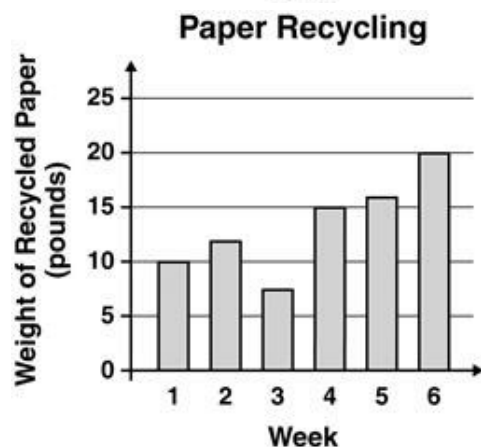
Paper Recycling	
Week	Amount (Pounds)
1	10
2	12
3	7
4	15
5	16
6	20

Which bar graph correctly displays this information?

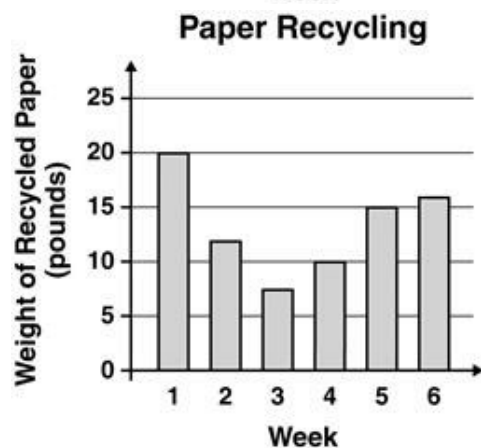
A.



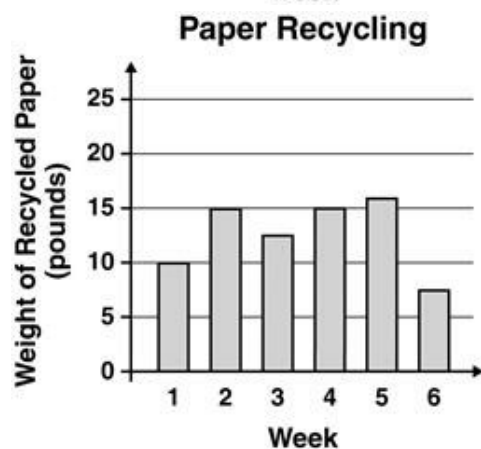
B.



C.



D.

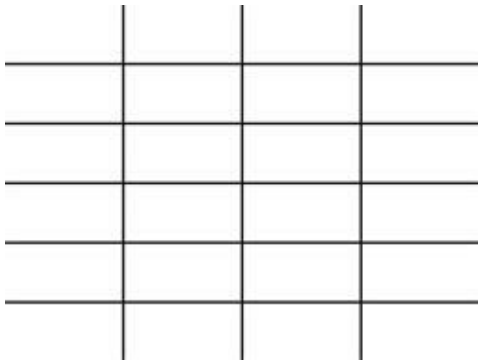


12. Mr. Cantu’s class went on a nature walk to look for leaves. The table shows the number of leaves they saw.

**Leaves Seen on
Nature Walk**

Type of Leaves	Number of Leaves
Oak	10
Pecan	8
Maple	12
Elm	4

Put the information from the table on a bar graph. Title the graph, label both axes, and shade the bars.



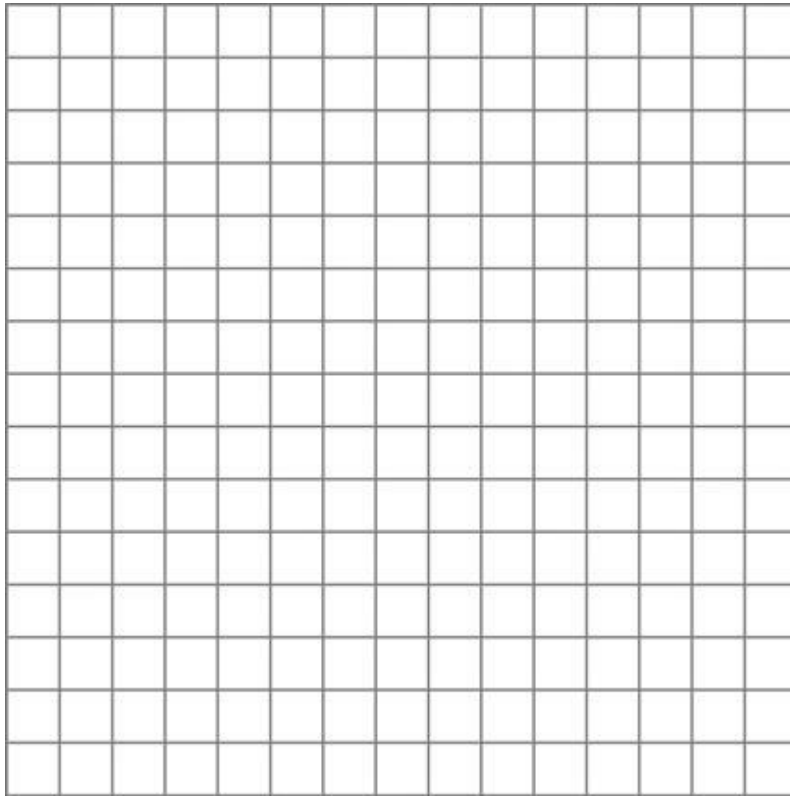
13. Rachel surveyed some of her friends and family. She asked them to name the sport they most liked to watch on TV. Rachel recorded their answers in her notebook as shown below.

Mike – soccer	Roger – football
Laura – football	Elena – basketball
Mom – tennis	Ricardo – football
Dad – football	Kim – basketball
Aunt Judy – basketball	Sharon – soccer
Uncle Jerry – baseball	Walter – baseball
Grandma Linda – football	Bernie – football
Grandpa Joe – football	Diana – basketball
Suzy – soccer	Tina – football
Eric – basketball	Melinda – tennis

- Show the results of Rachel’s survey in the table below. Be sure to include a title and column labels on your table.

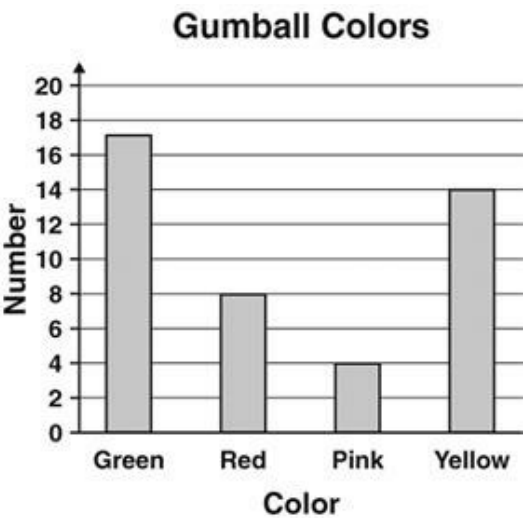
- Make a bar graph on the grid below to show the results of Rachel’s survey. Be sure to include the following:

- a title
- labels for the axes
- appropriate and consistent scales
- all of the data



- Use the information from Rachel's bar graph to predict how many people will prefer watching basketball on TV if 100 people were surveyed. Explain your prediction.

14. The graph shows the number of each colored gumball Kelsey has.



Which table BEST represents the information in the graph?

- A.
- | Gumball Colors | | | |
|----------------|-----|------|---------------|
| Green | Red | Pink | Yellow |
|

 | | |

 |
- B.
- | Gumball Colors | | | |
|----------------|-----|------|---------------|
| Green | Red | Pink | Yellow |
|

 | | |

 |
- C.
- | Gumball Colors | | | |
|----------------|-----|------|---------------|
| Green | Red | Pink | Yellow |
|

 | | |

 |
- D.
- | Gumball Colors | | | |
|----------------|-----|------|---------------|
| Green | Red | Pink | Yellow |
| | | |

 |

15. After watching a new movie, 18 children were surveyed and asked to rate the movie. The list below shows the choices they had to rate the movie.

The 😊 means you really liked the movie.

The 😐 means you thought the movie was okay.

The ☹ means you did not like the movie.

The results of the survey are shown below.



Which pictograph below correctly represents the results of the survey?

A.

Movie Rating	Results
😊	★★★★
😐	★★★★★★
☹	★★

Key: Each ★ = 2 votes

B.

Movie Rating	Results
😊	★★★★
😐	★★★
☹	★★

Key: Each ★ = 2 votes

C.

Movie Rating	Results
😊	★★★★★★★★
😐	★★★★★★
☹	★★★★

Key: Each ★ = 2 votes

D.

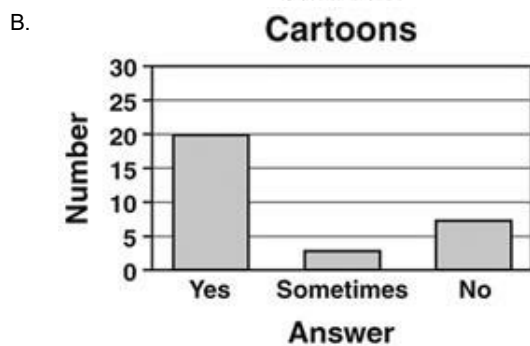
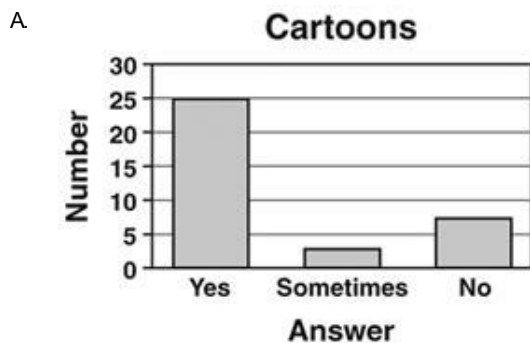
Movie Rating	Results
	★ ★
	★ ★ ★
	★ ★ ★ ★

Key: Each ★ = 2 votes

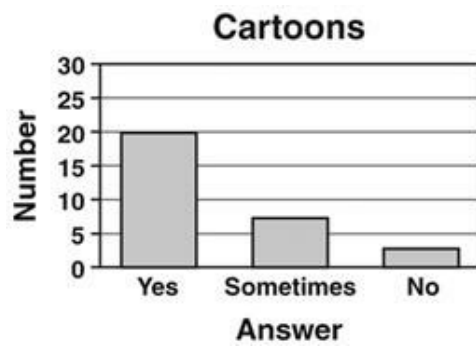
16. Carlos asked 35 people if they watched cartoons. He wrote his answers in the following table.

Cartoons	
Answer	Number
Yes	
Sometimes	
No	

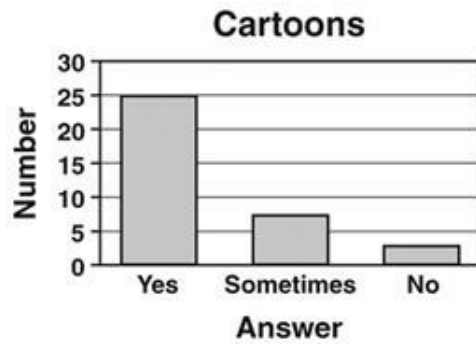
Which of the following graphs BEST represents the information in the table?



C.



D.



17. Sally flipped a coin 20 times. She had 8 heads and 12 tails. Which tally chart shows her results?

A.

Coin Toss	
Heads	Tails

B.

Coin Toss	
Heads	Tails

C.

Coin Toss	
Heads	Tails

D.

Coin Toss	
Heads	Tails

18. Sam and Alex are combining their change. Sam has 6 pennies, 4 nickels, and 2 dimes. Alex has 4 pennies, 5 dimes, and 3 quarters. Which chart shows the total number of each coin they have?

A.

Combining Coins	
Coin	Number
Penny	
Nickel	
Dime	
Quarter	

B.

Combining Coins	
Coin	Number
Penny	
Nickel	
Dime	
Quarter	

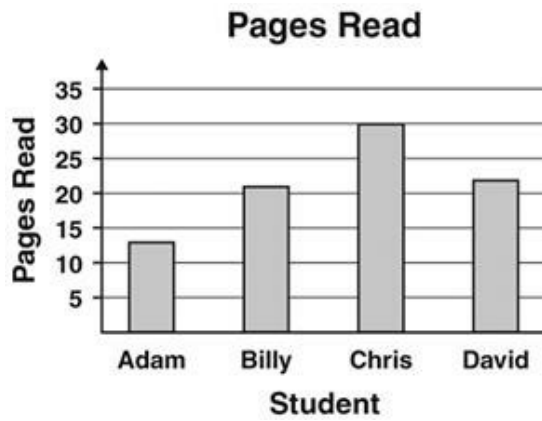
C.

Combining Coins	
Coin	Number
Penny	
Nickel	
Dime	
Quarter	

D.

Combining Coins	
Coin	Number
Penny	
Nickel	
Dime	
Quarter	

19. The graph shows the number of pages 4 students read for homework last week.



Which table matches the information in the graph?

A.

Pages Read	
Student	Pages Read
Adam	13
Billy	21
Chris	30
David	22

B.

Pages Read	
Student	Pages Read
Adam	15
Billy	26
Chris	28
David	23

C.

Pages Read	
Student	Pages Read
Adam	20
Billy	25
Chris	30
David	25

D.

Pages Read	
Student	Pages Read
Adam	10
Billy	8
Chris	15
David	14

