

NO.	QUESTION																											
1	<p>Peter wants to buy 3 ice cream cones. There are 4 shops that sell the product he wants. The shops, the price of the ice cream cones, and any special offers are shown in the following table:</p> <table border="1"> <thead> <tr> <th>Brand</th> <th>Standard price of ice cream cones</th> <th>Special Offer</th> </tr> </thead> <tbody> <tr> <td>Nestle'</td> <td>\$4</td> <td>Buy 1 get 1 half price</td> </tr> <tr> <td>Selecta</td> <td>\$5</td> <td>Buy 2 get 1 free</td> </tr> <tr> <td>Magnolia</td> <td>\$3</td> <td>Flat rate 30% off</td> </tr> <tr> <td>Gelato</td> <td>\$2</td> <td>No special offer</td> </tr> </tbody> </table> <p>Peter wants to buy all his ice cream cones from the same shop and to spend as little as possible.</p> <p>Which shop should Peter buy all his ice cream cones from?</p> <p>A. Nestle' B. Selecta C. Magnolia D. Gelato</p>	Brand	Standard price of ice cream cones	Special Offer	Nestle'	\$4	Buy 1 get 1 half price	Selecta	\$5	Buy 2 get 1 free	Magnolia	\$3	Flat rate 30% off	Gelato	\$2	No special offer												
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2	<p>Eight students had a reading competition. All of them were given two books that they have to finish reading. Below are the number of hours they've spent to finish the books.</p> <table border="1"> <thead> <tr> <th>NAME</th> <th>BOOK 1</th> <th>BOOK 2</th> </tr> </thead> <tbody> <tr> <td>Peter</td> <td>8 hrs 10 mins</td> <td>7 hours 40 mins</td> </tr> <tr> <td>Humphry</td> <td>6 hours 20 mins</td> <td>7 hours 30 mins</td> </tr> <tr> <td>Joseph</td> <td>7 hours 20 mins</td> <td>6 hours 10 mins</td> </tr> <tr> <td>Isaac</td> <td>8 hours 30 mins</td> <td>7 hours 10 mins</td> </tr> <tr> <td>Judah</td> <td>8 hours 10 mins</td> <td>8 hours 10 mins</td> </tr> <tr> <td>Doug</td> <td>10 hours 20 mins</td> <td>7 hours 20 mins</td> </tr> <tr> <td>Asher</td> <td>7 hours 50 mins</td> <td>6 hours 50 mins</td> </tr> <tr> <td>Damian</td> <td>7 hours 20 mins</td> <td>8 hours 20 mins</td> </tr> </tbody> </table> <p>Who is the fastest reader among all 8 students?</p>	NAME	BOOK 1	BOOK 2	Peter	8 hrs 10 mins	7 hours 40 mins	Humphry	6 hours 20 mins	7 hours 30 mins	Joseph	7 hours 20 mins	6 hours 10 mins	Isaac	8 hours 30 mins	7 hours 10 mins	Judah	8 hours 10 mins	8 hours 10 mins	Doug	10 hours 20 mins	7 hours 20 mins	Asher	7 hours 50 mins	6 hours 50 mins	Damian	7 hours 20 mins	8 hours 20 mins
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Doug	10 hours 20 mins	7 hours 20 mins																										
Asher	7 hours 50 mins	6 hours 50 mins																										
Damian	7 hours 20 mins	8 hours 20 mins																										

- A. Joseph
- B. Isaac
- C. Judah
- D. Asher

3

Eight competitors in an archery competition receive up to **20** points in each round. The results for the first three rounds are shown table below:

NAME	ROUND 1	ROUND 2	ROUND 3
Heather	17	18	16
Donnah	15	15	16
Megan	17	18	18
Kris	15	14	13
Anne	17	12	18
Madie	17	19	19
Sofie	15	15	16
Rose	14	13	12

One competitor will definitely win the competition outright if they score enough points in the fourth and final round.

What is the minimum score that this competitor needs to be guaranteed the win?

- A. 20
- B. 19
- C. 17
- D. 18

4

There are five competitors in a swimming competition. The task is to swim back and forth to see who could swim the fastest. Each of them were given two attempts and the shortest time recorded between their two attempts will be considered as their time recorded. Their results are shown below.

NAME	ATTEMPT 1	ATTEMPT 2
Kevin	29.5 seconds	28.2
Brook	28.4 seconds	29.1
Josh	28.1 seconds	27.6
Stacy	30.2 seconds	29.4

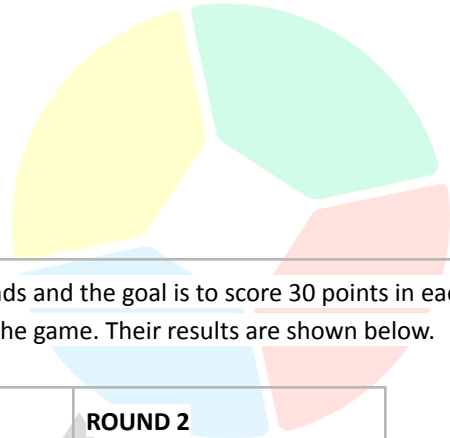
Juan

29.4 seconds

29.2

Who was in 3rd place?

- A. Brook
- B. Juan
- C. Stacy
- D. Josh



5

Six basketball players had a shooting competition. There are two rounds and the goal is to score 30 points in each round for a total of 60 points. The player with the shortest time recorded wins the game. Their results are shown below.

NAME	ROUND 1	ROUND 2
Lebron	49.2 seconds	52 seconds
Kobe	50.3 seconds	45 seconds
Giannis	52.1 seconds	50.3 seconds
Kevin	59.2 seconds	57.3 seconds
Jamal	49 seconds	47.4 seconds
Tyrone	50.1 seconds	50 seconds

Who won in the shooting competition?

- A. Giannis
- B. Jamal
- C. Lebron
- D. Kobe

6

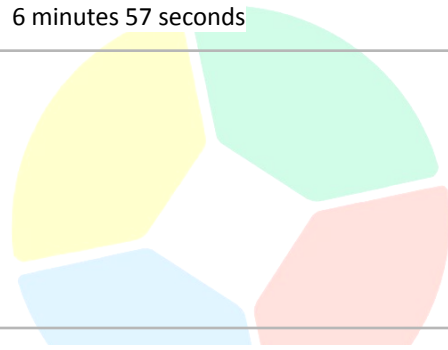
Maria, Chelsea, Mark, Suzy, Benjamin and Jasmine were all in the playground when they decided to have a cycling competition. The goal was to go to their school from the playground then from school back to the playground again. The player with the shortest time covered wins the game. Their results are shown below.

NAME	PLAYGROUND-SCHOOL	SCHOOL TO PLAYGROUND
Maria	6 minutes 47 seconds	6 minutes 20 seconds
Chelsea	6 minutes 52 seconds	6 minutes 55 seconds
Mark	5 minutes 48 seconds	5 minutes 40 seconds
Suzy	6 minutes 4 seconds	6 minutes 0 seconds

Benjamin	5 minutes 8 seconds	5 minutes 2 seconds
Jasmine	7 mins 3 seconds	6 minutes 57 seconds

Who won the cycling competition?

- A. Jasmine
- B. Benjamin
- C. Chelsea
- D. Mark



7 Five friends decided to have a karaoke competition. Each of them were given three songs for them to sing. At the end of every song, the machine generates a score based on the song points that they have reached. Scores from all three rounds were added together to get the average score. The person with the highest average score recorded wins the competition. Their results are shown in the table.

NAME	ROUND 1	ROUND 2	ROUND 3
Juan	88	88	87
Rafael	90	87	92
Johnny	87	77	85
Alexis	96	96	89
Charlie	98	100	100

Who has the highest average score?

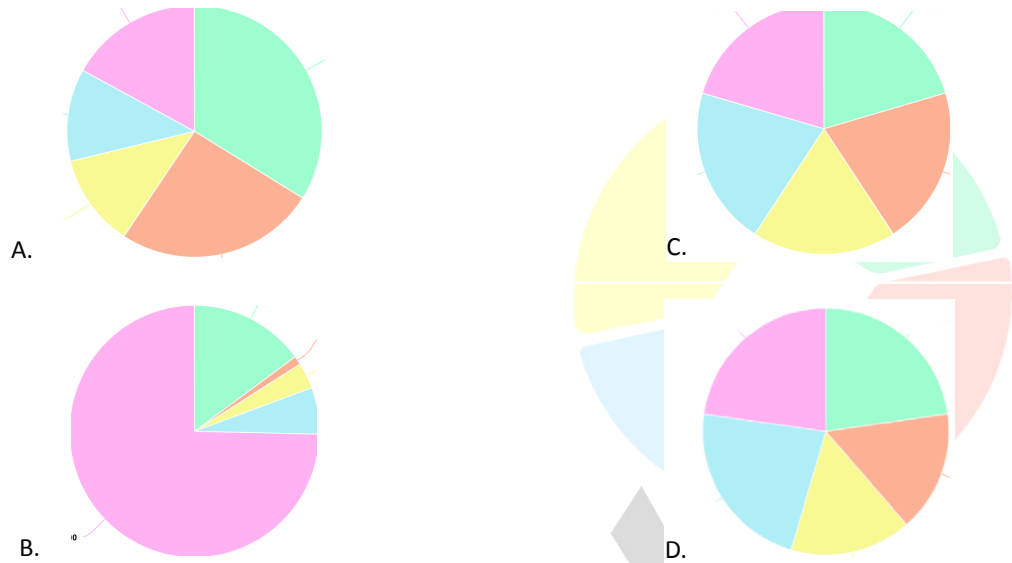
- A. Charlie
- B. Rafael
- C. Juan
- D. Alexis

8 Tourists in Japan were asked to vote for their favourite Japanese dish. The table below displays the number of votes received by each dish.

Variable	Sushi	Sashimi	Onigiri	Yakitori	Unagi
Value	2000	1500	700	700	1000

They transferred the data to a pie chart but failed to label it before compiling it with the other pie charts.

Which pie chart represents the data in the table?



9 James is a car dealer who wanted to know how much money he made in the first five months of the year. He plotted the data in a table and a pie chart but unfortunately, he lost the copy of the table before putting in the label in the pie chart.



Which of the following data represents the pie chart?

A.

Variable	January	February	March	April	May
Value	1600	1900	1100	2300	940

B.

Variable	January	February	March	April	May
Value	2000	2000	2000	1000	1000

C.

Variable	January	February	March	April	May
Value	100	500	1000	3000	5000

D.

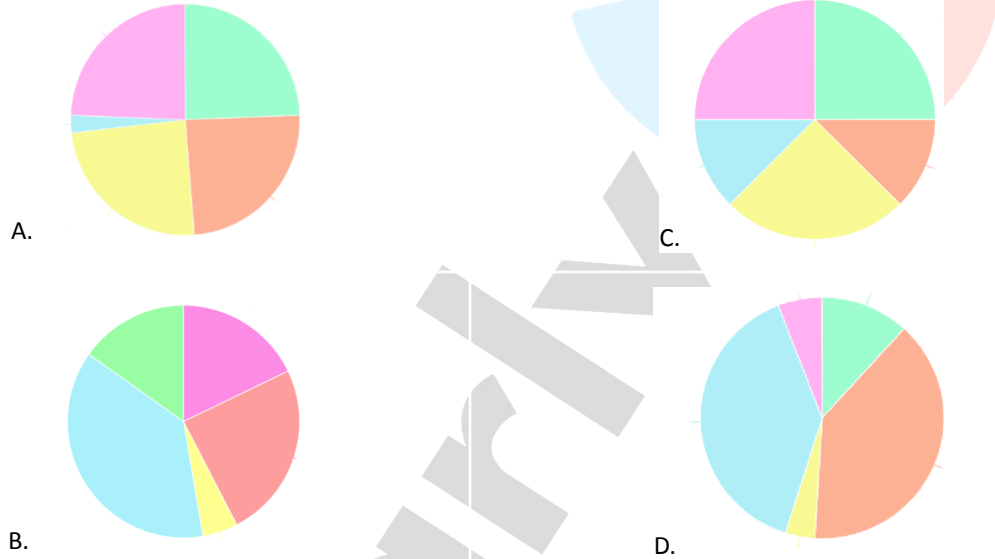
Variable	January	February	March	April	May
Value	150	150	2000	2500	2500

10

All students are eligible for a 10% discount on the original cost of an instrument purchased from an instrument retailer. The table below displays the total sales made on each instrument.

Variable	Trumpet	Cello	Clarinet	Xylophone	Violin
Value	340	550	110	840	400

Which of the following pie charts represents the data in the table?



11

The swimming coach of a university was curious as to how many students had taken swimming lessons in the previous five years. They transferred the data to a pie chart but failed to put labels in the pie chart.



Which of the following tables matches the slices in the pie chart?

A.

Variable	2015	2016	2017	2018	2019
Value	100	410	100	670	100

B.

Variable	2015	2016	2017	2018	2019
Value	320	410	550	670	730

C.

Variable	2015	2016	2017	2018	2019
Value	500	410	500	410	100

D.

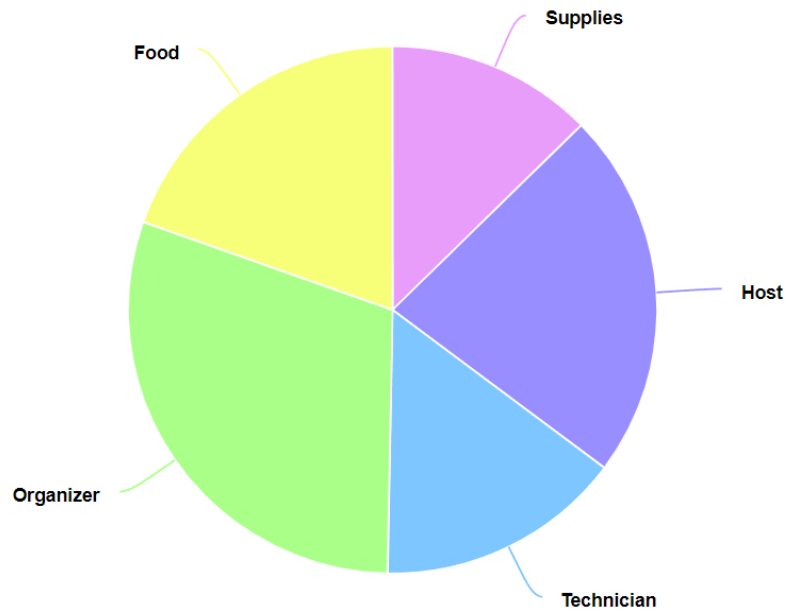
Variable	2015	2016	2017	2018	2019
Value	200	700	450	200	100

12

Gayle was tasked with planning a celebration for the school's foundation day. The budget allocation for the event is shown in the table below.

Variable	Supplies	Host	Technician	Organiser	Food
Value	840	1500	1000	1300	2000

They transferred the data to a pie chart but put one of the lines of the pie chart in the wrong place.



The lines between which variables must be incorrect?

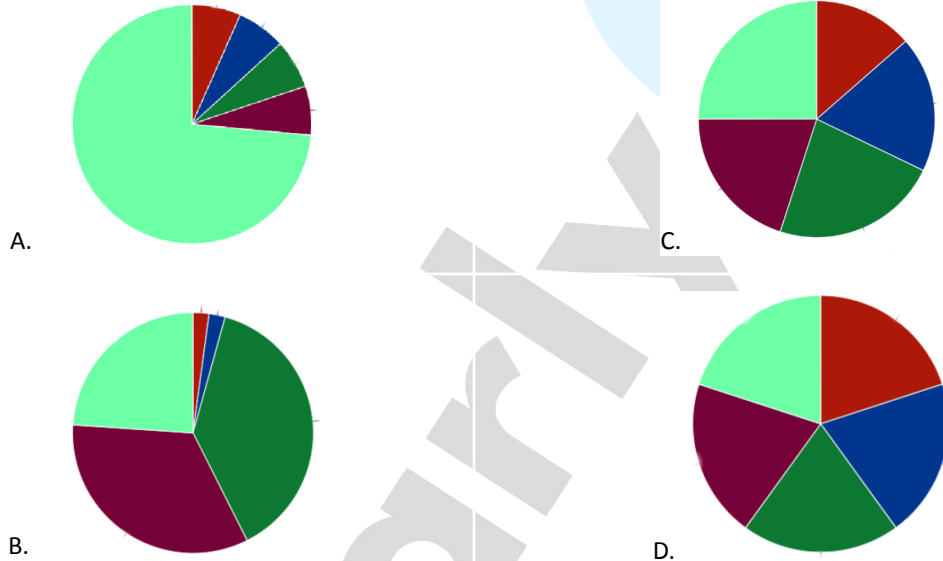
- A. Organiser and Food
- B. Food and Supplies
- C. Supplies and Host
- D. Host and Technician
- E. Technician and Organizer

13

A bookstore was curious as to how many books they had sold in the year 2021. As a result, they compiled a list of the number of purchases made in each category. The results are shown in the table below.

Variable	Classic	Literary	Fantasy	Drama	Nonfiction
Value	9500	13000	16000	14000	17500

Which of the following pie charts represent the data in the table?



14

The prices for Comedy Central Comedy Show tickets are shown in the table below.

Pass for 1 day	Pass for 4 days (consecutive)	Pass for 8 days (consecutive)
\$ 10	\$30	\$50

Alfred will need a ticket for the following days of the month: 4, 5, 6, 7, 8, 9, 10, 11, 15

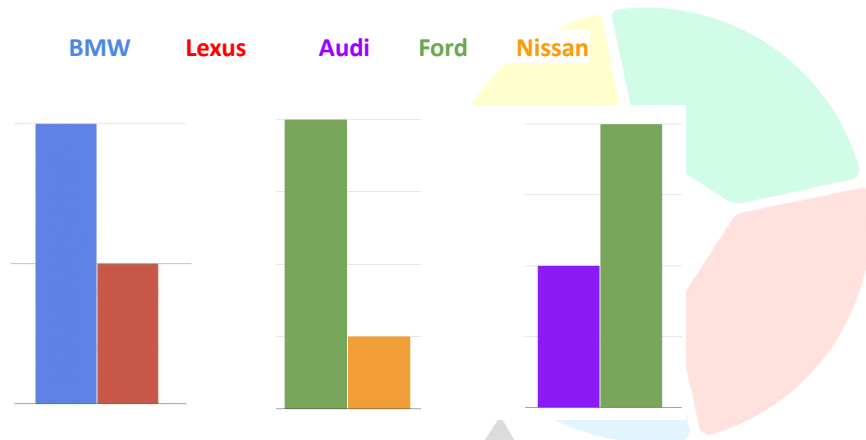
How much is the cheapest valid combination Alfred could use?

- A. \$ 50
- B. \$ 60
- C. \$ 80
- D. \$ 40

15

A car importing company imports 6 different brands of cars. The company would like to figure out the popularity of each brand among their customers. To do so, they construct a bar chart so they can compare the amount of cars they imported from each brand.

The following bar charts are fractions of the fully constructed chart.



- 5 Lexuses were imported.
- 5 Nissans were imported.
- In total, there were 65 cars imported.

How many Mercedes cars were imported?

- A. 30
- B. 10
- C. 15
- D. 20

16 Ron and Harry would like to go on a road trip. They decide that they would like to rent a motorhome for six days and drive across the United States. The motorhome needs to have on board WiFi and a generator. They end up finding multiple options and decide to create a table to figure out which is the cheapest option.

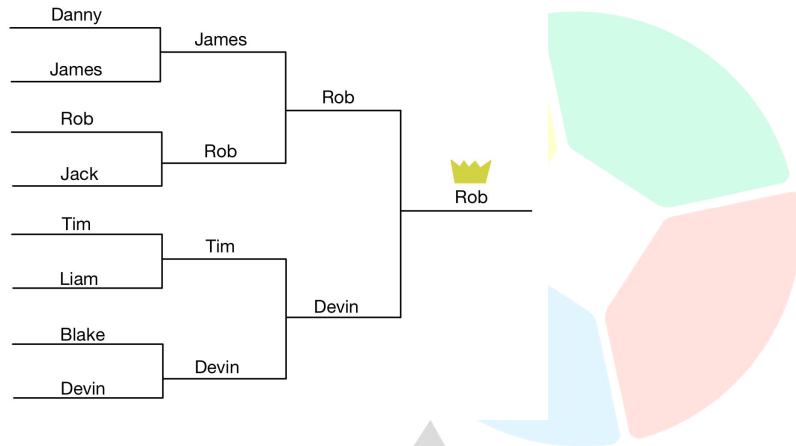
Option	Rent/day	WiFi/2 days	Generator
#1	65 USD	7 USD	33 USD
#2	58 USD	8 USD	36 USD
#3	69 USD	5 USD	40 USD

How much cheaper is the cheapest option in comparison to the second cheapest?

- A. \$3
- B. \$61
- C. \$25
- D. \$36

17

The following chart shows the outcome of last year's tennis tournament at Anglo School of Sofia.



How many matches were won between Rob, Danny, Tim, and Devin?

- A. 4
- B. 5
- C. 6
- D. 7

18

The prices for Indonesia Health and Safety Convention tickets are shown in the table below.

Pass for 1 day	Pass for 4 days (consecutive)	Pass for 8 days (consecutive)
\$ 5	\$15	\$25

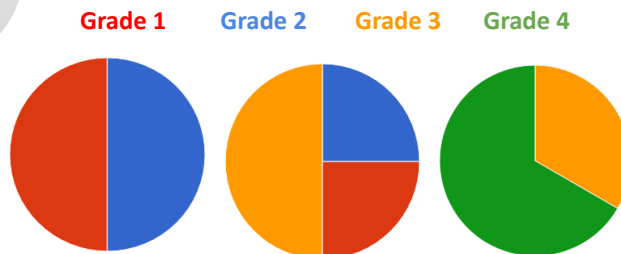
Saturn will need a ticket for the following days of the month: 1, 2, 3, 4, 6, 7, 8, 9, 11

How much is the cheapest valid combination Saturn could use?

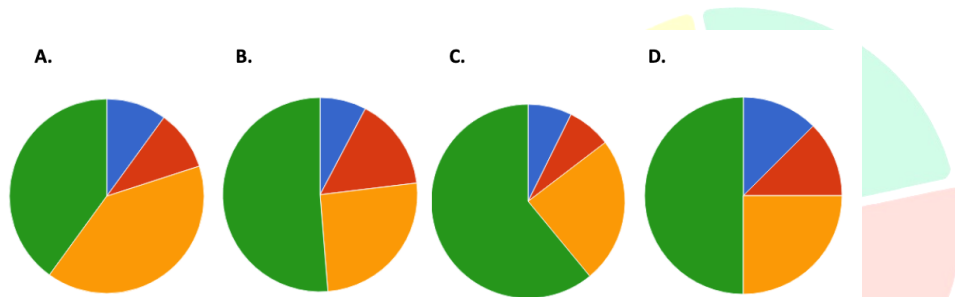
- A. \$ 20
- B. \$ 50
- C. \$ 40
- D. \$ 35

19

Duffy's Kindergarten has a total of 160 children divided into 4 grade levels. The following pie charts show the ratio between some of the grades.



Based on these charts, which one is the complete chart for all the grades?



20 The prices for Just for Laughs Comedy Show tickets are shown in the table below.

Pass for 1 day	Pass for 4 days (consecutive)	Pass for 8 days (consecutive)
\$ 8	\$30	\$50

Bruno will need a ticket for the following days of the month: 1, 2, 3, 7, 8, 9, 10, 14

How much is the cheapest valid combination Bruno could use?

- A. \$ 58
- B. \$ 62
- C. \$ 60
- D. \$ 78

21 Aciel wants to buy 5 leaf blowers. There are 4 shops that sell the product he wants. The shops, the price of the leaf blowers and any special offers are shown in the following table:

	Standard price of leaf blowers	Special Offer
Target Shop	\$35	Buy 3 get 1 free
Dollar Shop	\$20	No special offer
Goodwill Shop	\$40	30% off final price
Online Shop	\$25	Buy 3 get 1 half price

Aciel wants to buy all his leaf blowers from the same shop and to spend as little as possible.

Which shop should Aciel buy all his leaf blowers from?

- A. Target Shop
- B. Dollar Shop
- C. Goodwill Shop
- D. Online Shop

22

Eight competitors in a skateboard competition receive up to 15 points in each round. The results for the first three rounds are shown table below:

NAME	ROUND 1	ROUND 2	ROUND 3
Tony	14	13	12
Hawk	11	13	8
James	15	8	9
David	10	11	13
Allen	8	9	10
Scott	11	14	7
Tyler	14	10	9
Kyle	11	10	8

One competitor will definitely win the competition outright if they score enough points in the fourth and final round.

What is the minimum score that this competitor needs to be guaranteed the win?

- A. 9
- B. 12
- C. 10
- D. 11

23

In a water drinking competition, 5 students were given 2 attempts to finish a glass of 200ml of water. The shortest time in two attempts will be counted as their time recorded. The results are shown below.

NAME	1st Attempt (in seconds)	2nd Attempt (in seconds)
Sean	4.9	5.6
Coco	5.3	5.1
Irene	5.5	5.9
Nayeon	4.8	5.0
Leo	5.2	5.4

Who among the students came 2nd in the competition?

- A. Sean

- B. Nayeon
- C. Leo
- D. Coco

24 Toby wants to buy 12 bulbs. There are 4 shops that sell the product he wants. The shops, the price of the bulbs and any special offers are shown in the following table:

	Standard price of bulbs	Special Offer
Shop A	\$5	Buy 6 get 6 half price
Shop B	\$3	20% off first item
Shop C	\$6	Flat rate 20% off
Shop D	\$8	*Buy 1 get 1 free

What is the difference in price between the cheapest and most expensive option?

- A. \$ 23.8
- B. \$ 25.1
- C. \$ 20.3
- D. \$ 22.2

25 The prices of the passes for the new Avatar Movie Convention are shown in the table below.

Pass for 1 day	Pass for 6 days (consecutive)	Pass for 10 days (consecutive)
\$ 100	\$500	\$700

Eden will need a ticket for the following days of the month: 1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

How much is the cheapest valid combination Eden could use?

- A. \$ 1180
- B. \$ 1170
- C. \$ 1200
- D. \$ 1140

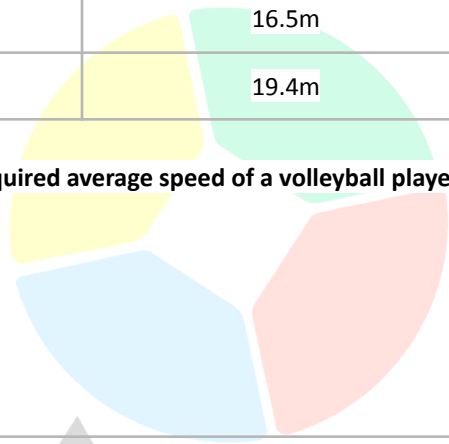
26 Five volleyball players wanted to see who could run the fastest. Each player was given 2 attempts with 5 seconds on each attempt to run. The longest distance recorded will be the one considered as their result. Below are the results.

NAME OF PLAYER	ATTEMPT 1(in metres)	ATTEMPT 2(in metres)
Kayla	20.2m	17.8m
Kirsten	18.3m	18.0m

Andrea	19.2m	18.4m
Shana	16.7m	16.5m
Naomi	17.3m	19.4m

Who among the players would be the third fastest runner? If the required average speed of a volleyball player is 3 metres per second, should she improve her speed?

- A. Shana, she does not need to improve.
- B. Shana, she needs to improve.
- C. Andrea, she does not need to improve.
- D. Andrea, she needs to improve.



27 Suzy wants to buy 20 phone cases for her new iPhone13 ProMax. There are 4 shops that sell the product she wants. The shops, the prices of the phone cases and special offers are shown in the following table:

	Standard price of iphone cases	Special Offer
Shop A	\$5	No special offer
Shop B	\$7	30% off on total price
Shop C	\$6	Buy 5 get 1 free
Shop D	\$8	Buy 1 get 1 free

Suzy wants to buy all her phone cases from the same shop and to spend as little as possible.

Which shop should Suzy buy all her phone cases from?

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

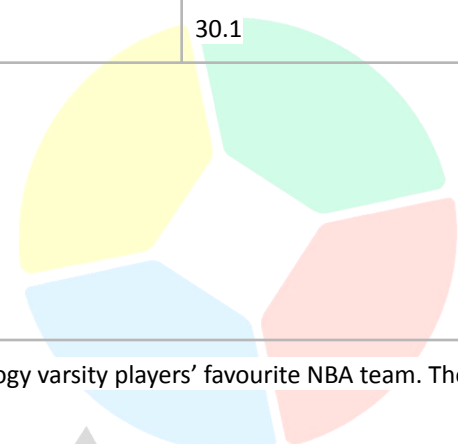
28 In a Physical Education class, the students' activity for the day is to do the sit-and-reach exercise. Five friends decided to do the activity together. Each student was given 3 attempts and the farthest that they could reach would be recorded as their final score. The results are shown below.

NAME	1st Attempt (in inches)	2nd Attempt (in inches)	3rd Attempt (in inches)
MAXINE	34.3	32.9	33.5
RIA	30.4	32.6	31.2
JESSA	33.7	34.1	32.9

KYLA	31.4	32.3	30.9
MONIQUE	33.8	31.2	30.1

Who is in second place?

- A. Ria
- B. Kyla
- C. Jessa
- D. Monique

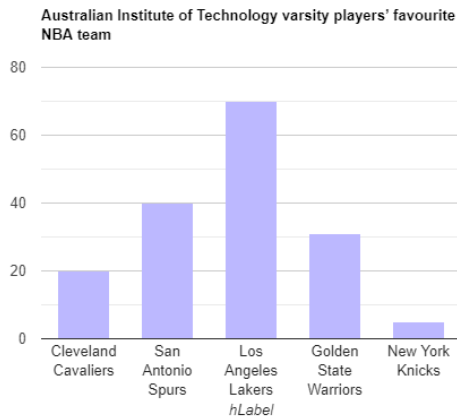


29

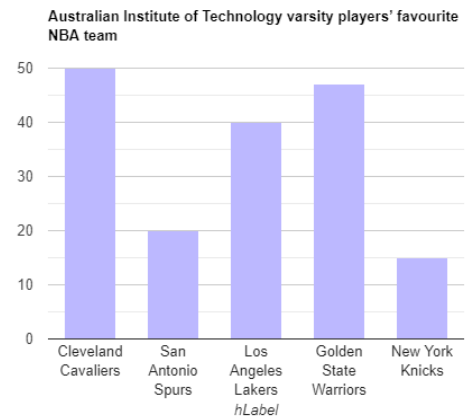
A poll was taken for the preference of Australian Institute of Technology varsity players' favourite NBA team. The results are shown in the table:

NBA Team	Cleveland Cavaliers	San Antonio Spurs	Los Angeles Lakers	Golden State Warriors	New York Knicks
Number of votes	20	40	70	31	5

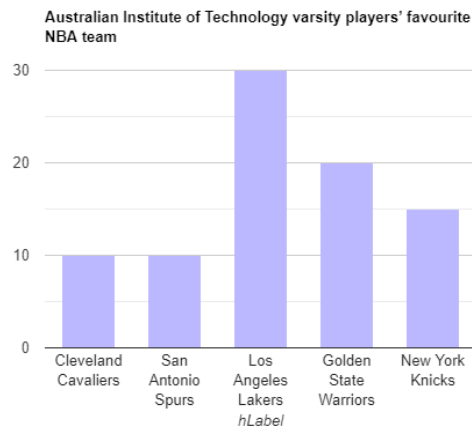
Which of the following bar charts represent the data in the table?



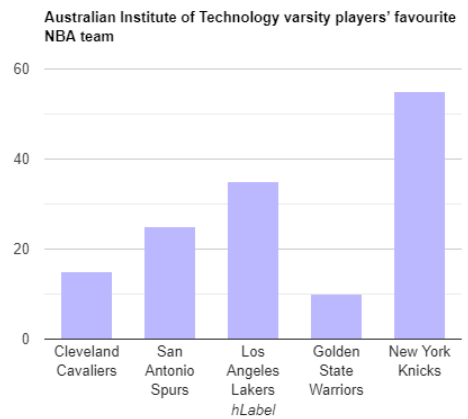
A.



B.



C.



D.

30 The prices for Maroon Five tickets are shown in the table below.

Pass for 1 day	Pass for 5 days (consecutive)	Pass for 9 days (consecutive)
\$ 30	\$100	\$200

Adam will need a ticket for the following days of the month: 1, 2, 3, 4, 5, 8, 9, 10, 12, 13

How much is the cheapest valid combination Adam could use?

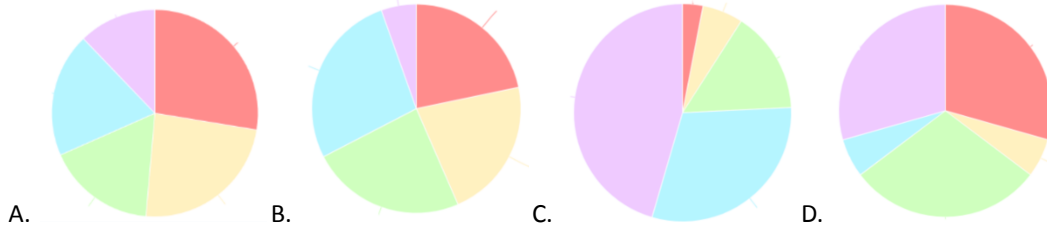
- A. \$ 200
- B. \$ 230
- C. \$ 250
- D. \$ 350

31 Ezekiel conducted a survey on 500 people at the grocery about their most preferred juice brand.

Juice	Minute Maid	Tropicana	Florida's Natural	Simply Orange	The Daily Juice
Value	138	119	85	97	61

Ezekiel made a pie chart that represents the information in the data.

Which of the following pie charts best represents the data in the table?

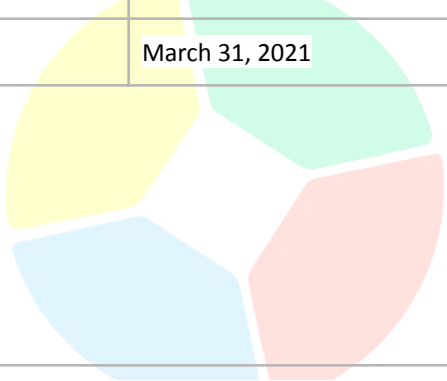


32 Due to COVID-19, airports are changing their rules. People would only be allowed to travel if they have been vaccinated at least 1 week before their flight date.

People's details are shown in the table below.

NAME	DATE OF VACCINATION	FLIGHT DATE
KRIELLE	January 3, 2021	January 18, 2021
PRAYAH	January 16, 2021	January 29, 2021
ZARIF	February 18, 2021	February 21, 2021
MISHCA	February 26, 2021	February 28, 2021

REI	March 3, 2021	March 18, 2021
ZARAH	March 14, 2021	March 20, 2021
JOHN	March 23, 2021	March 31, 2021



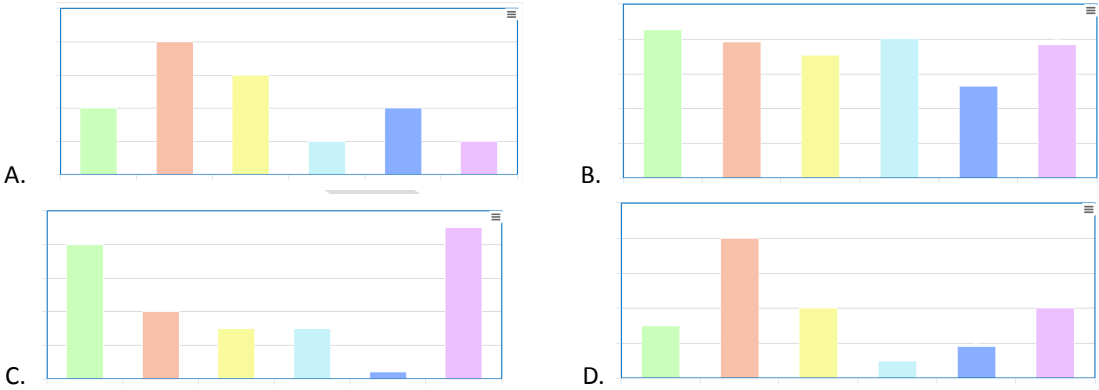
How many people would be allowed to travel?

- A. 4
- B. 5
- C. 6
- D. 7

33 Olive sells different kinds of bags on Amazon. She wants to make a bar chart summary of her sales for the first half of the year. Her sales are shown below.

Month	January	February	March	April	May	June
Number of bags sold	427	392	354	402	265	383

Which of the following bar charts best represents the data in the table?



34 Maureen conducted a survey on 100 Year 4 students about their most preferred ballpen brand. The results are shown in a pie chart.



Which of the following data shown in the different tables best matches the pie chart?

A.

Brand	Muji	Pilot	Parker	Papermate	Sharpie
Value	13	23	31	15	18

B.

Brand	Muji	Pilot	Parker	Papermate	Sharpie
Value	20	20	20	20	20

C.

Brand	Muji	Pilot	Parker	Papermate	Sharpie
Value	10	15	20	25	30

D.

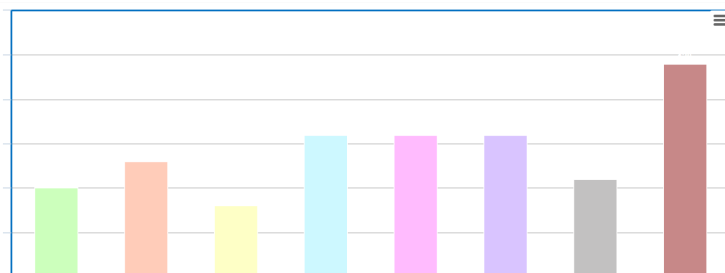
Brand	Muji	Pilot	Parker	Papermate	Sharpie
Value	10	20	10	20	40

35

After the calamity, Statefields School Inc. organised a charity work. Eight students have given their monetary donation. The amount of each donation is shown in the table.

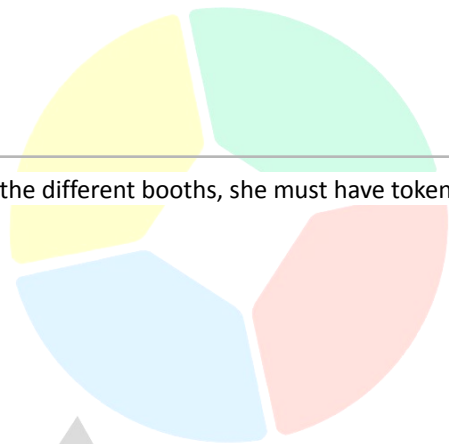
MICO	\$50
ANDREI	\$65
LEI	\$40
MARTIN	\$100
JUSTINE	\$80
JESSICA	\$80
CHARLES	\$55
HYACINTH	\$120

The head teacher made a bar chart showing the amount of money donated by each student.



One of the amounts was inputted incorrectly in the chart. **Which among the students was incorrect on the chart?**

- A. Andrei
- B. Martin
- C. Charles
- D. Hyacinth



36 Shane is going to the Country Fair with her friends. In order to play in the different booths, she must have tokens.

Promo 1 costs \$10 and includes 10 tokens.
 Promo 2 costs \$5 and includes 5 tokens.
 Promo 3 costs \$3 and includes 3 tokens.

Each booth at the fair requires a different number of tokens.

Shane is planning to play in 8 different booths. Three booths require 8 tokens each, three other booths require 6 tokens each, and two booths require 5 tokens each. Greyson gave Shane 4 tokens. She wants to spend the least amount of credits that would allow her to play in 8 different booths. Moreover, she also wants to avail the least number of promos.

How much in total should Shane spend?

- A. \$38
- B. \$42
- C. \$48
- D. \$56

37 Klay, Roda, and Lola want to go to Disneyland this October. They also want to try each and every ride but the problem is, the waiting lines are long and they would not be able to finish everything in one day, which is why they need to come back on different dates. They would like to go to Disneyland on the following dates of October: 12, 15, 16, 17, and 20. The prices of the tickets are shown below.

Pass for 1 day	Pass for 3 consecutive days	Pass for 5 consecutive days
\$34	\$95	\$140

How much is the cheapest valid combination they could use?

- A. \$399
- B. \$489
- C. \$549
- D. \$699

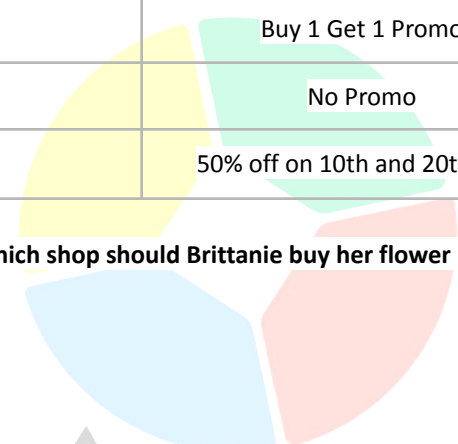
38 Brittanie wants to buy 20 flower pots for her garden at home. There are 4 shops that offer the pots she wants. The shops, prices of the post, and other special offers are shown in the table below.

SHOP	STANDARD PRICE	PROMO

SHOP A	\$6	10% off on total price
SHOP B	\$9	Buy 1 Get 1 Promo
SHOP C	\$4	No Promo
SHOP D	\$5	50% off on 10th and 20th item

Brittanie is on a budget and wants to spend as little as possible. **In which shop should Brittanie buy her flower pots?**

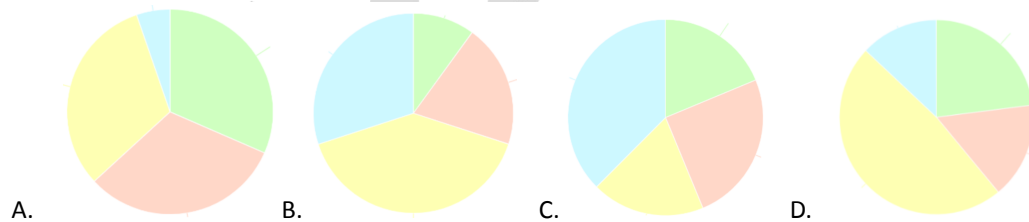
- A. Shop A
- B. Shop B
- C. Shop C
- D. Shop D



39 Marvin works at a local pizza store. He asked 100 customers about their favourite pizza flavour. The results are shown in the table below.

Flavour	Cheese	Pepperoni	Ham and Bacon	BBQ Chicken
Value	23	16	48	13

The store manager heard about what Marvin did and asked him to plot it in a pie chart. **Which of the following pie charts best represents the data in the table?**



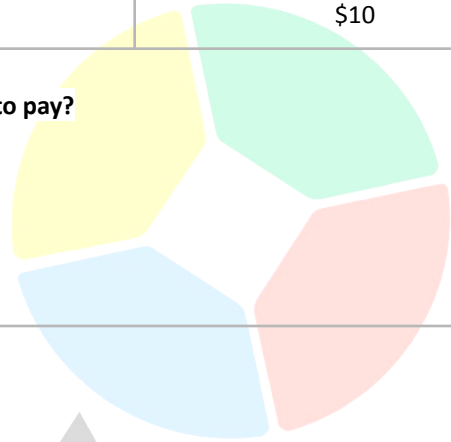
40 Susan is competing for an art competition next week. She needs the following items: 2 paintbrushes, 1 blank canvas, 1 set of watercolour, and an apron. The items, variations, and other special offers are shown in the table below.

ITEM	VARIATION	PRICE
Paintbrush	Plastic Paintbrush	\$5
	Steel Paintbrush	\$8
Blank Canvas	Standard	\$12
	Italian Premium	\$20
Water Colour Set	Basic Colour Set	\$6

	Da Vinci Water Colour Edition	\$12
Apron	Cotton	\$10

If Susan goes for the expensive options, how much would she have to pay?

- A. \$52
- B. \$58
- C. \$50
- D. \$48



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