1 The table below shows the points gathered by players in the Nationwide Football League where each of them represents their home region. They have three more matches where they hope to earn more points.

Player	Home Region	Current Points
M. Jack	Westside	16
B. Joel	Uptown	12
S. Won	Arla	15
F. Sinta	Invale	11
D. Arton	Colsher	17
D. Awrick	Bron	16

The following tables show the results of the last 3 games.

Week 13

2	Westside	vs.	Uptown	1
1	Arla	vs.	Invale	2
1	Colsher	vs.	Bron	0

Week 14

0	Westside	vs.	Invale	1
2	Arla	vs.	Bron	1
1	Colsher	vs.	Uptown	2

Week 15

| 0	Arla	vs.	Uptown	2
2	Colsher	vs.	Invale	1
1	Westside	vs.	Bron	2
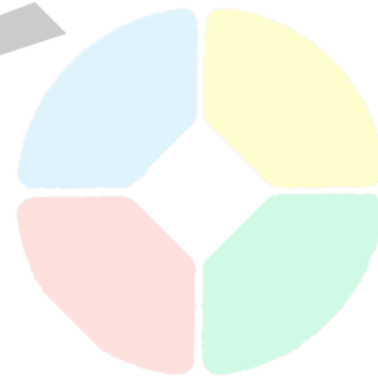
If all points scored by each team is made only by the player mentioned for each team, which of the following players scored the least?

- A. M. Jack
- B. F. Sinta
- C. B. Joel
- D. S. Won

2 Statefields School, Inc. will be celebrating its 116th founding anniversary on September 14th. Students are encouraged to join in the different dance presentations. Listed in the table are the number of students who would be present for the dance presentations.

YEAR LEVEL	MALE	FEMALE
YEAR 2	42	46
YEAR 3	49	57
YEAR 4	32	39
YEAR 5	65	54

The school principal asked the head teacher to make a bar chart representation of the information in the table. **Which of the following bar charts best represents the data in the table?**

A.

B.

C.

D.
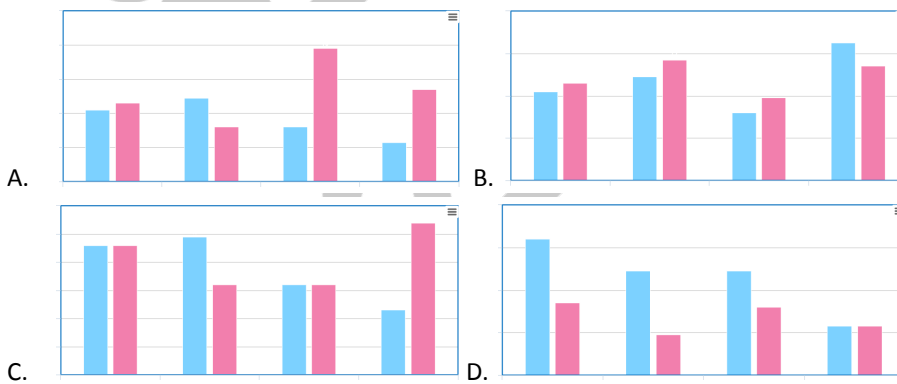
3 Roger and Jamie both own Asian fusion restaurants. Below is a line graph that shows their annual sales over 8 years.

Annual sales in thousands (in USD)
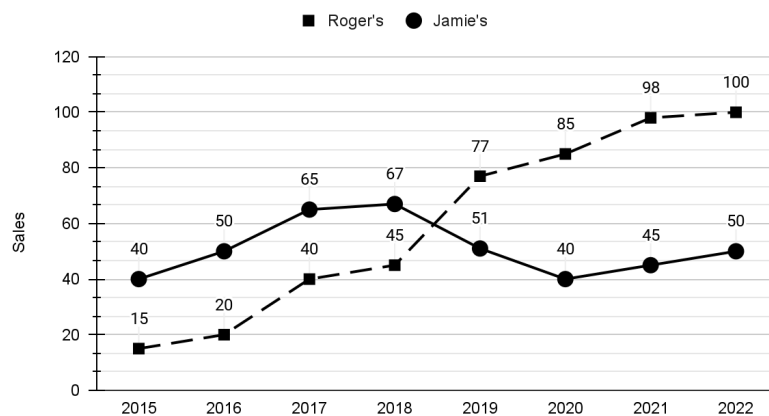
The average yearly sales of Jamie's restaurant during the given period is what percentage of the average yearly sales of Roger's restaurant?

A. 85%
B. 87%
C. 118%
D. 117%

4 Francis owns 350 apple trees. Every week, he delivers apples to the different markets in the city. Shown in the table is the total number of apple boxes delivered per week for the past six weeks.

Week	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Value	42	47	39	52	45	39

Francis asked one of his employees to make a pie chart representation of the data in the table.

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

A.   B.   C.   D.
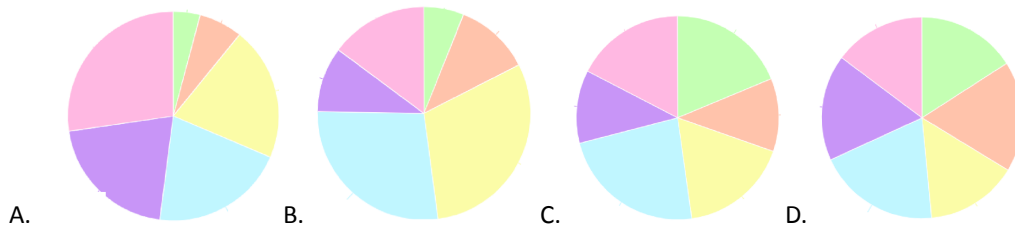
5 Jake wants to buy 9 boxes of pizza. There are four shops that sell the products he wants. The shops, the prices, and special offers are shown in the table below.

Shop	Standard price	Special offer
Pop's Pizzeria	$12	Buy one get one at 75% off
A Pizza Paradise	$13	20% off the final price
Dough-re-mis	$14	Buy 2 get 1 free
Pan's	$10	Half off the first three boxes

Jake wants to buy all his pizzas from the same shop and to spend as little as possible.

Which shop should Jake buy all his pizzas from?

    A.   Pop's PIzzeria
   B.   A Pizza Paradise
    C.   Dough-re-mis
    D.   Pan's
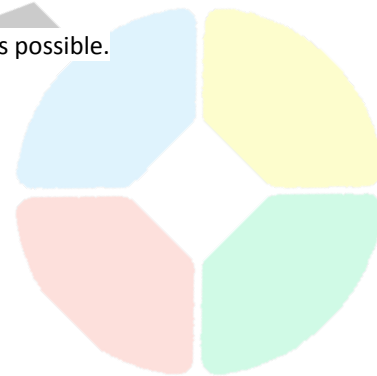
6   The dance troupe club and the singers club are the two most chosen clubs by the students. The table shows the total number of students per year level who signed up in one of the two clubs.

YEAR LEVEL	DANCE TROUPE CLUB	SINGERS CLUB
YEAR 2	45	48
YEAR 3	52	39
YEAR 4	49	41
YEAR 5	38	52
YEAR 6	41	21

The headteacher made a bar chart representation of the data above. Unfortunately, she forgot to put a label on the bar chart.
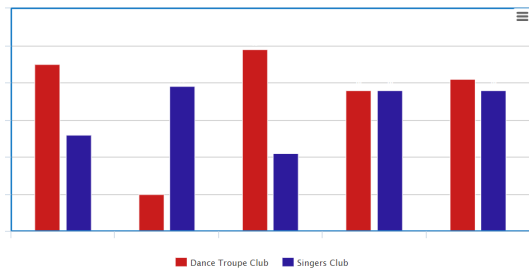
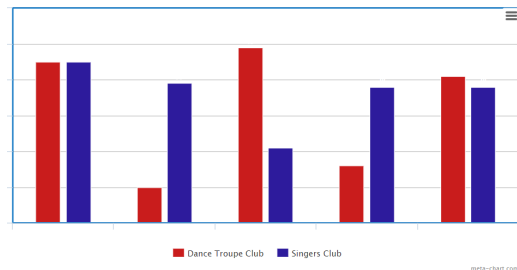**Which of the following bar charts best represents the data in the table?**

A.

Dance Troupe Club   Singers Club

B.

Dance Troupe Club   Singers Club

C.

Dance Troupe Club   Singers Club

D.

Dance Troupe Club   Singers Club

meta-chart.com
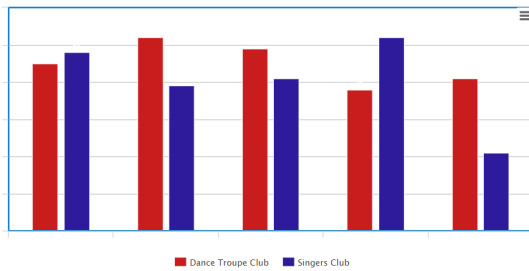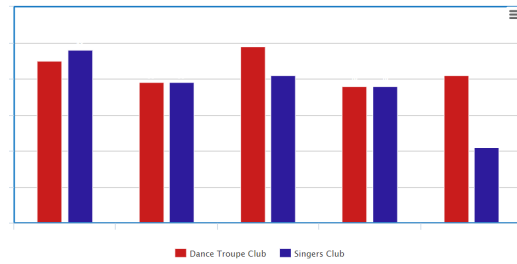
7   The table below shows the average amount of fertiliser (in grams) used in a vegetable garden, and its yield or the quantity of vegetables harvested from said garden (in kilograms).

Month	April	May	June	July	August	September
Fertiliser (g)	700	800	1 000	1 300	1 500	1 600
Yield (kg)	4	5	8	7	5	4

Which of the following graphs, with reasonable scales added to the axes, can best illustrate the relationship between the amount of fertiliser used and the yield of the vegetable garden?

A.

B.

C. .

D.
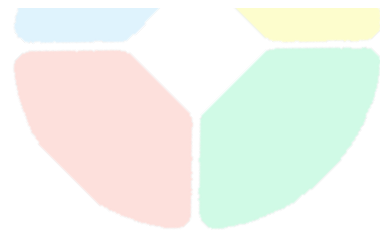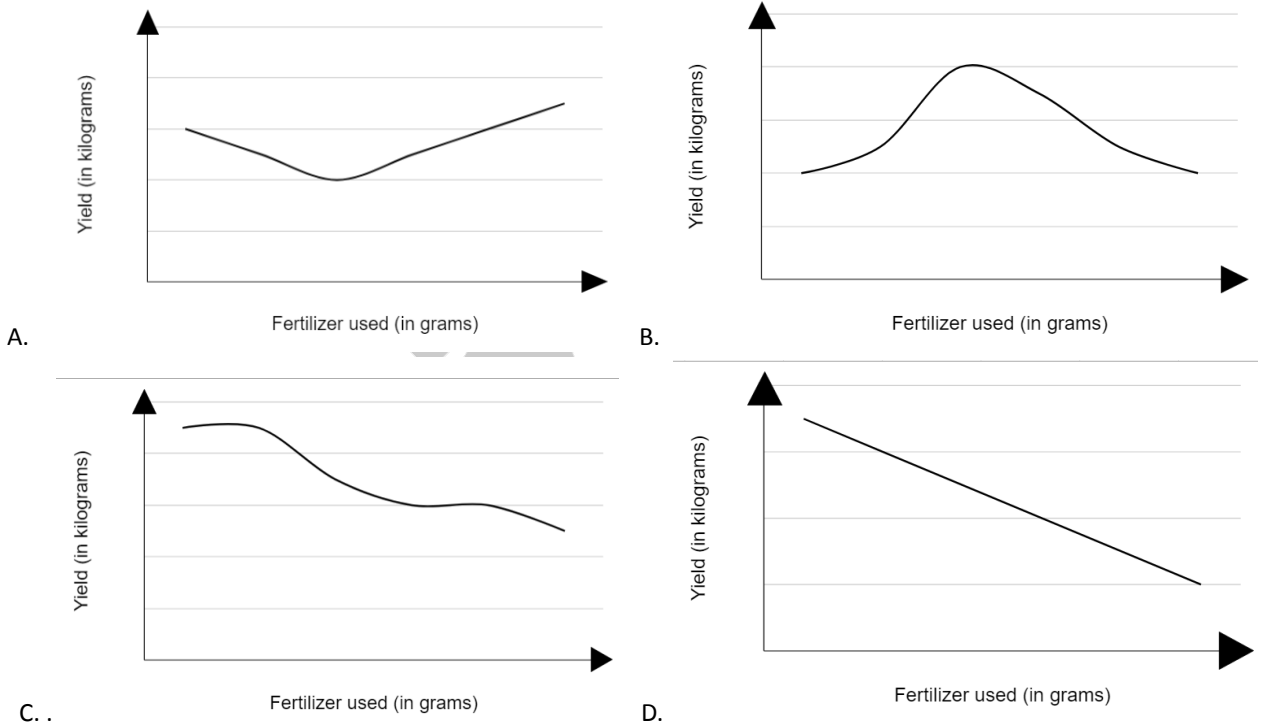
8   Brad works at a jewellery shop. He created a pie chart representation of the items sold in their shop for the whole month of September.

His boss heard about the pie chart that he made and asked him if he could see the raw data.

Which of the following data sets best matches the partition in the pie chart?

A.

ITEM	Necklace	Bangle	Bracelet	Ring	Earrings	Anklet
VALUE	36	6	12	20	52	10

B.

ITEM	Necklace	Bangle	Bracelet	Ring	Earrings	Anklet
VALUE	16	6	16	20	6	10

C.

ITEM	Necklace	Bangle	Bracelet	Ring	Earrings	Anklet
VALUE	16	6	12	20	22	10

D.

ITEM	Necklace	Bangle	Bracelet	Ring	Earrings	Anklet
VALUE	16	6	12	20	22	12

9   Each city in Wakanda sets its own tax rate which applies to the whole of a person's yearly income. Below is a table showing the tax information of 5 different residents in 4 cities.

| Resident	City	Yearly income	Tax rate
Chad	Zan	$20 000	5%
Angela	Adwa	$15 000	10%
Dorothy	Fort Han	$5 000	20%
Michael	Jaba	$10 000	25%
Gigi	Ser Valley	$8 000	15%

Who pays the same amount of taxes in a year as Chad?

A. Gigi
B. Michael
C. Angela
D. Dorothy

10 Elmer bought some supplies from the hardware since his comfort room is still under construction. He listed down the items he bought and made a pie chart representation using the data that he has. The list of the items and their respective prices are shown in the table below.

ITEM	Cement	Paint	Brushes	Toilet Bowl	Tiles	Glass
VALUE	$360	$95	$40	$410	$280	$200

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

A.   B.   C.   D.
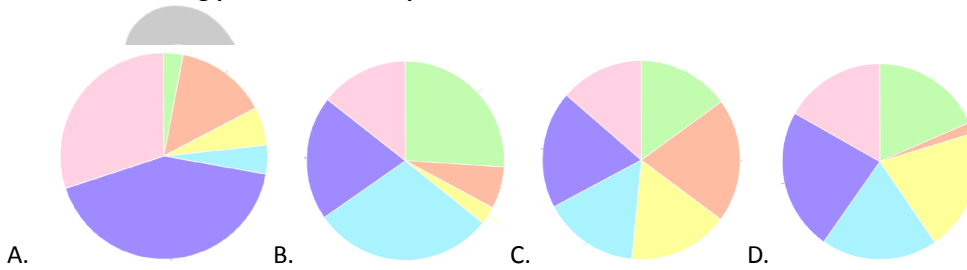
11 Gomez hikes to the park every weekend. The first part of the route he takes is a rocky path, the second part is along a flat highway, and the last part of the route is uphill. He maintains a constant speed throughout all the parts, but he walks twice as fast on the highway than on the rocky path. His speed going uphill is also half his speed on the rocky path.

Which one of the following graphs best represents Gomez's walk?

A.   B.

C.   D.
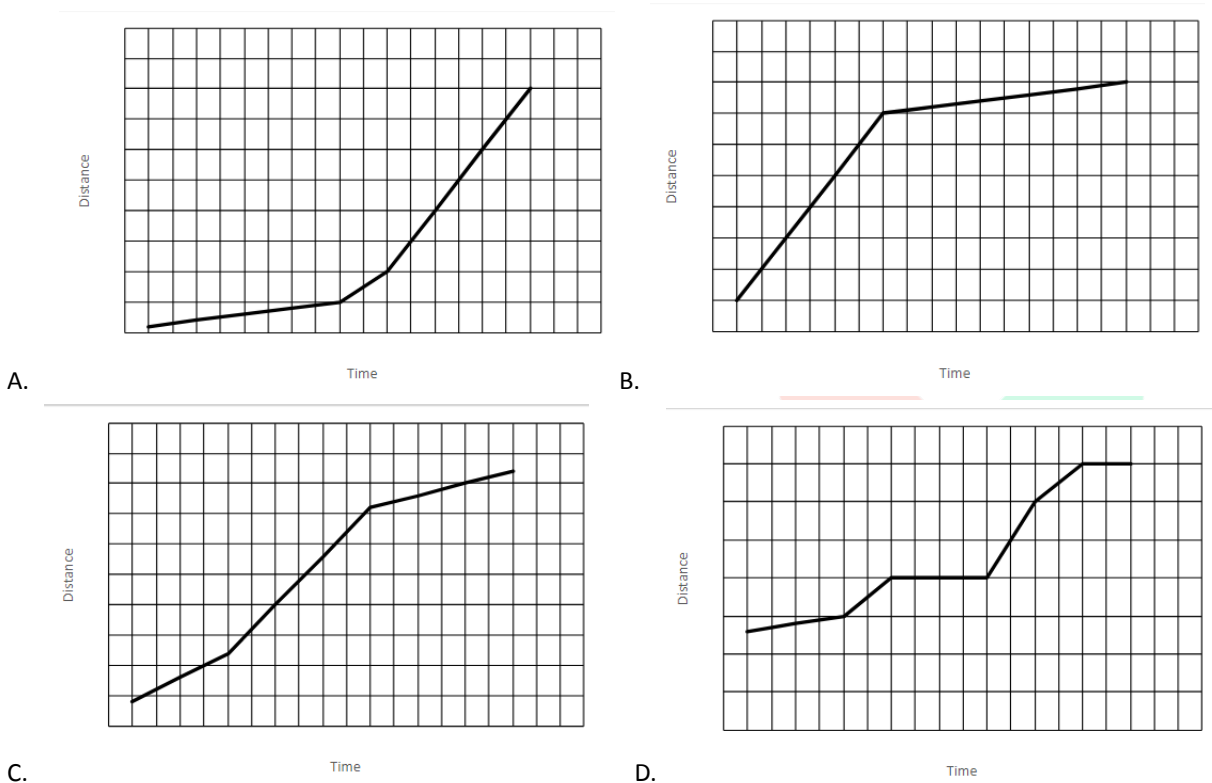
12 The bar graph shows Kianna's electricity and water bills in her flower shop for the past 6 months.
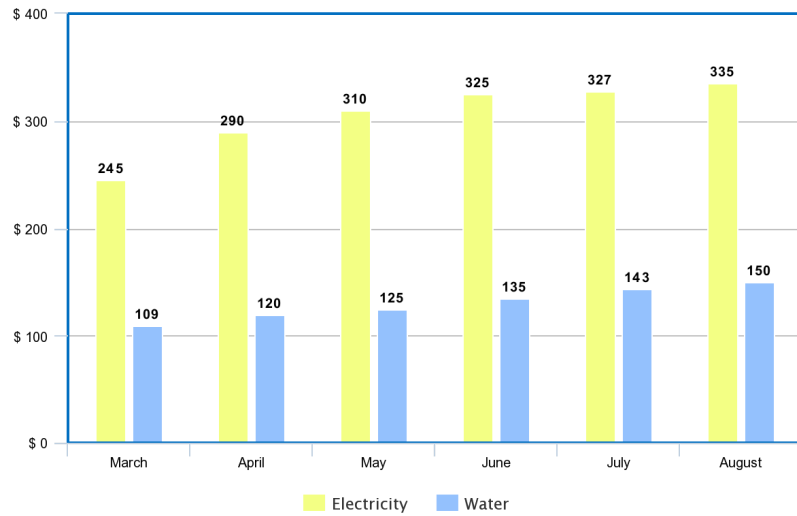
What consecutive months had the most difference in Kianna's total electricity and water bills?

    A.   July and August
    B.   June and July
    C.   May and June
    D.   April and May
    E.   March and April

13 Dan buys different kinds of beverages at the food court on his way home from school. The prices are shown in the table below.

Drinks	300 ml. (small)	480 ml. (regular)	600 ml. (large)
Water	$3	$5	$8
Lemonade	$5	$8	$11
Orange Juice	$6	$8	$10
Chocolate Milk	$7	$10	$12
Strawberry Smoothie	$10	$13	$15

Dan always buys regular orange juice on Mondays and Fridays. He gets a small cup of Lemonade on Tuesdays and only gets a large bottle of water on Wednesdays and Thursdays. But, when Dan aces an exam, he gets a large strawberry smoothie instead, regardless of the day of the week.

Last week, Dan aced his exams on Monday and Thursday.

How much did Dan spend on beverages last week?

    A. $52
    B. $44
    C. $51
    D. $41

14   Lalaine works at Victoria's Secret. She counted the number of people who bought perfumes from their shop during the month of February. The store manager asked her to create a bar graph representing the top 6 best-selling perfumes in their shop. The bar graph is shown below.
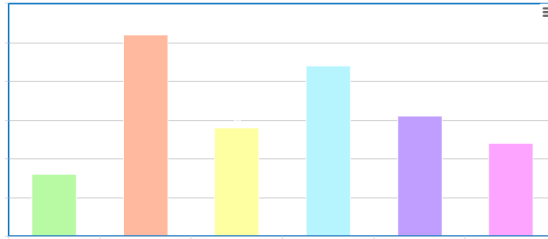
When Lalaine showed the manager the bar chart she made, the manager asked for the raw data so she could check if the data matches the representation in the bar graph.

Which of the following data sets best represents the data in the table?

A.

NAME OF PERFUME	Love Spell	Bare Vanilla	Amber Romance	Velvet Petals	Bombshell	Rush
VALUE	16	52	28	44	31	16

B.

NAME OF PERFUME	Love Spell	Bare Vanilla	Amber Romance	Velvet Petals	Bombshell	Rush
VALUE	44	52	28	52	31	44

C.

NAME OF PERFUME	Love Spell	Bare Vanilla	Amber Romance	Velvet Petals	Bombshell	Rush
VALUE	16	52	28	44	31	24

D.

NAME OF PERFUME	Love Spell	Bare Vanilla	Amber Romance	Velvet Petals	Bombshell	Rush
VALUE	16	52	28	2	31	24

15 Kathy regularly uploads travel vlogs on the internet. She keeps track of the number of views her videos get and the positive reviews they get. The chart below shows the percentage of positive reviews received out of the total number of views each year from 2016 until 2020.

Percentage of positive reviews out of the total number of views
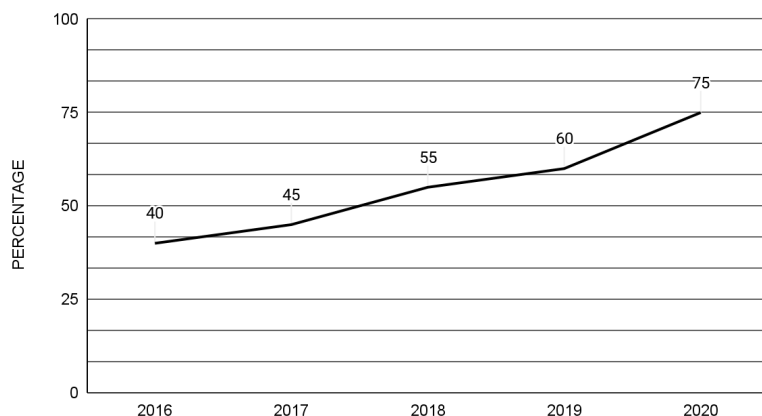
If there were 57 750 positive reviews in 2018, what is the total number of views Kathy's vlogs received in 2018?

- A.   3 176 250 views
- B.   1 050 views
- C.   31 763 views
- D.   105 000 views

16 Jason paid $150 for his groceries. He listed the different grocery categories and the total amount he spent on them.

Category	Meat & Seafood	Bakery & Bread	Dairy	Cereals	Drinks	Canned Goods
Cost	$46	$12	$18	$10	$18	$46

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

A.   B.   C.   D.

17 Four large record labels release hundreds of songs annually; a significant portion of which become top ten hits. Below is a table showing the number of songs they released each year, and how many of those songs became hits.

	LMN Studios		Rich Records		Moor Music Group		XYZ Entertainment	
	released	hits	released	hits	released	hits	released	hits
2015	450	17	454	15	520	23	310	24
2016	518	23	653	16	445	19	281	21
2017	390	15	231	14	418	18	385	18
2018	472	25	498	25	602	21	390	22
2019	430	19	508	24	370	18	428	24

What is the difference between the total number of songs LMN Studios released from 2016 to 2019 and the total number of songs Moor Music Group released during the years 2016 to 2019?

A.   25
B.   35
C.   52
D.   22

18 Adrian owns a grocery store in the province. Every week, he has a special offer on some of the products in his grocery store. He advertises these offers by comparing his prices with one of the other local grocery stores. Every week, the comparison is based on the ingredients for a dessert.

This week, the comparison will be based on vanilla ice cream. The ingredients and prices of the other local grocery store are shown in the table below.

| ITEM	PRICE OF THE ITEM IN ANOTHER LOCAL GROCERY STORE
Heavy Cream	$5.70
Milk	$3.30
Vanilla Flavour	$1.40
Condensed Milk	$4.60

One of each item listed in the table is needed to make 1 gallon of vanilla ice cream. Adrian wants to advertise that his products are 20% cheaper in total. He decided to sell the heavy cream for $4.50, the vanilla flavour for $1.10, and the condensed milk for $3.60.

 How much should he sell the milk to prove that his items are indeed 20% cheaper?

A. $2.80
B. $9.20
C. $10.4
D. $12.6

19   The graph below shows the amount of two different kinds of fishes caught off the shores of Pagi Island over the course of 5 years.

Fish caught (in kilograms)
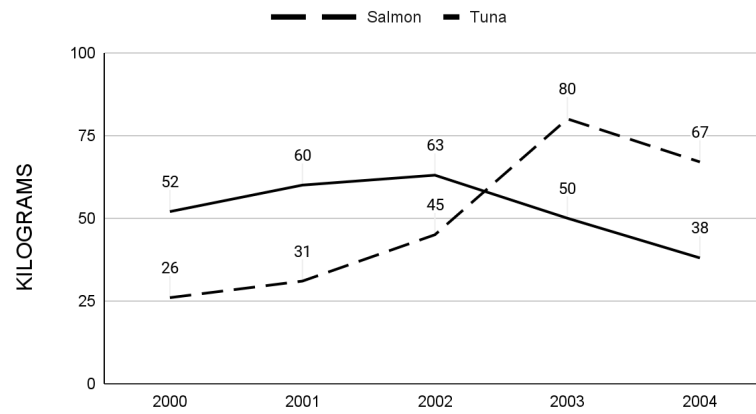
What is the difference between the average kilograms of fish caught in 2000 and the average kilograms of fish caught in 2003?

    A.   52 kilograms
    B.   26 kilograms
    C.   39 kilograms
    D.   65 kilograms

20   Luis works as a barista at her cousin's coffee shop. He kept track of everyone's orders and listed them all for the entire week. The results are shown in the table.

Coffee	Decaf	Espresso	Latte	Cappuccino	Macchiato	Cortado	Red Eye
Value	23	28	21	37	32	7	12

His cousin asked him to make a pie chart representation of the data in the table.

Which of the following pie charts best represents the data in the table if the green portion represents decaf?

    A.   B.   C.   D.
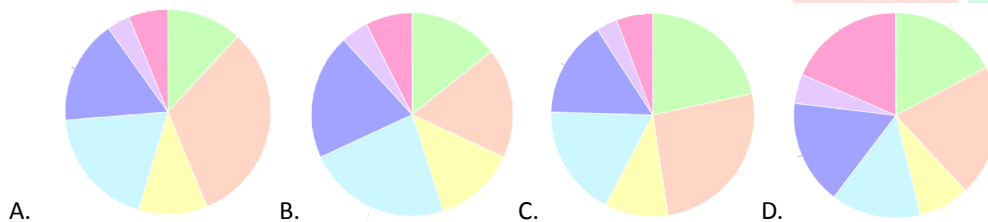
21 Scion Valley is home to successful brands that hire several hundred people each year. Below is a table showing the number of applicants and how many were hired over the course of four years.

Brands	Years							
	2000		2001		2002		2003	
	Applied	HIred	Applied	Hired	Applied	Hired	Applied	Hired
Alpha	500	320	730	435	630	523	760	354
Beta	600	340	690	485	795	590	802	318
Gamma	550	220	710	355	680	306	700	385

In which of the given years did the brand Gamma hire the highest percentage of applicants?

    A. 2000
    B. 2001
    C. 2002
    D. 2003

22 Shane wants to buy some tiles for her new restaurant. There are four shops that offer the tiles she wants. The shops, price per tile, variations, and other special offers are shown in the table.

VARIATION	SHOP A	SHOP B	SHOP C	SHOP D
Ceramic	$16	$14	$15	$19
Porcelain	$9	$7	$8	$9
Marble	$6	$5	$5	$11
Granite	$12	$13	$11	$13
Glass	$4	$3	$5	$7
PROMO	**10% OFF**	**NO PROMO**	**20% OFF**	**BUY1GET1**

Shane needs 730 tiles for the main restaurant and 350 tiles for the back kitchen.

Shane wants to buy the cheapest porcelain tiles for the main restaurant and the cheapest granite tiles for the kitchen. How much would she have to pay?

    A. $5560
    B. $5800
    C. $6200
    D. $6500

23 Hades has started his own pet grooming service. The graph below shows the number of different kinds of dogs that have availed of his services in the past 5 months.
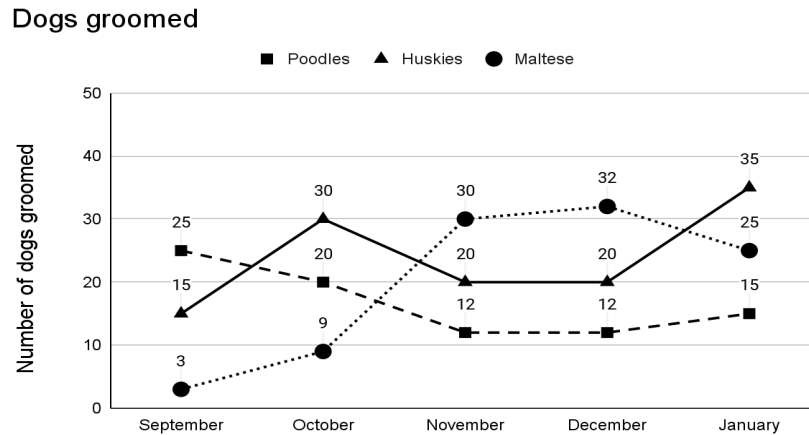
Dogs groomed

What is the total number of dogs Hades groomed from October to January?

    A. 303
    B. 260
    C. 287
    D. 175

24 In Central Park Mall, returning of items is only allowed within 3 days from the date of purchase. Any item that has been purchased longer than 3 days can no longer be returned. Shown in the table are the names of the people, date of purchase, and item return date.

NAME OF CUSTOMER	DATE OF PURCHASE	ITEM RETURN DATE
Zarah Vasquez	August 2, 2022	August 12, 2022
Elaine Martinez	August 2, 2022	August 4, 2022
Joshua Lee	August 7, 2022	August 8, 2022
Martin Zhong	August 14, 2022	August 17, 2022
Xia Yndira	August 18, 2022	August 19, 2022
Aaron Stanfield	August 21, 2022	August 26, 2022
Timothy Lopez	August 23, 2022	August 26, 2022
Samantha Mirong	August 23, 2022	August 25, 2022

How many got approved for item return?

    A. 2 people
   B. 4 people
    C. 6 people
    D. 7 people

25 Weston wants to buy a luxury vacation home. He wants one on a square lot that has an area of at least two thousand square metres. He also wants it to have at least 8 bedrooms, and an updated security system from 2020 or later. He also wants it to be 7 kilometres at most from the closest beach. The details of four houses recommended by his real estate agent are below.

House	Lot dimensions (in square metres)	Number of bedrooms	Security System Year	Distance from the beach (in metres)
Hillside	40 sq. m. x 40	9	2020	5 120
Galen Hall	45 sq. m. x 45	6	2020	6 000
Sea View	60 sq. m. x 60	8	2021	1 800
Silver House	72 sq. m. x 72	10	2020	25 0000

Which house fulfils all of Weston's requirements?

- A. Hillside
- B. Galen Hall
- C. Sea View
- D. Silver House

26 Zeke owns a tile shop in the Metro. The bar graph shows his monthly earnings for the past 6 months.
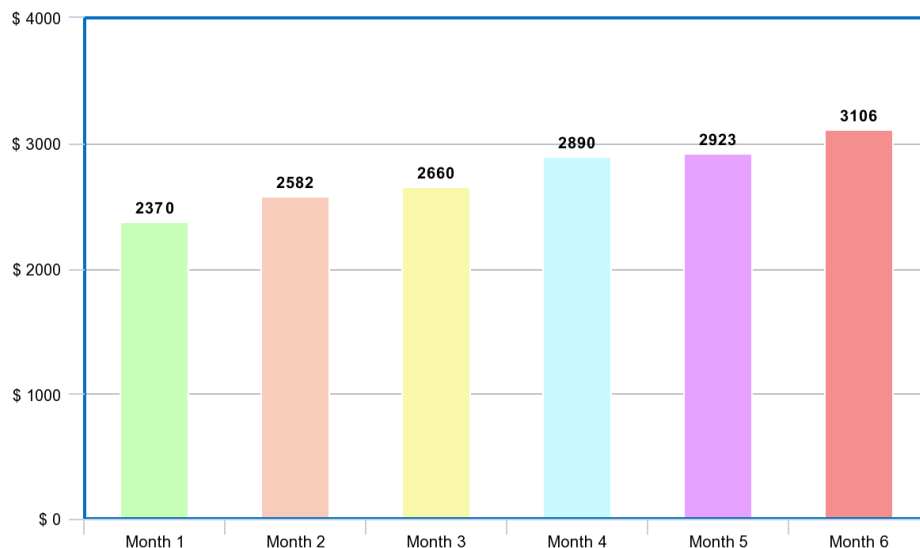

Which consecutive months had the most difference between Zeke's monthly earnings?

- A. Month 1 and Month 2
- B. Month 2 and Month 3
- C. Month 3 and Month 4
- D. Month 4 and Month 5
- E. Month 5 and Month 6

27 Don loves to take care of the chickens in his farm. And every week, his hens lay plenty of eggs. The chart below shows the number of brown and white eggs he has harvested over the past 5 weeks.

Eggs harvested from Don's farm
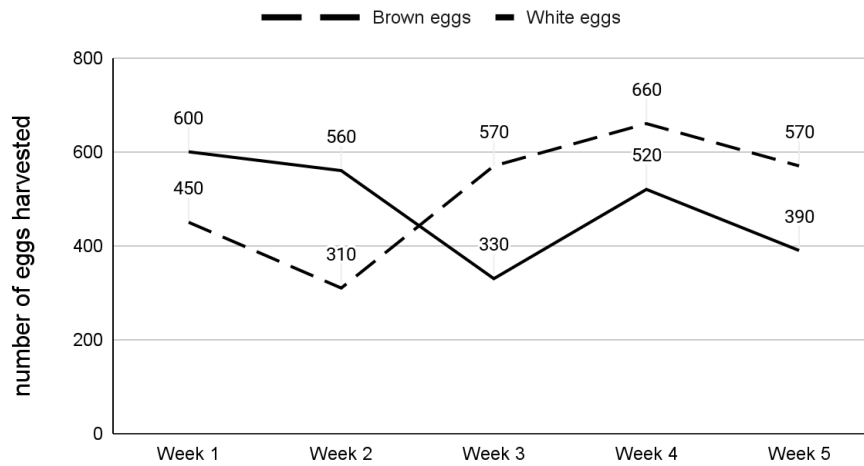
What is the total number of eggs Don harvested over the given period of time?

    A. 4 960
    B. 4 690
    C. 4 096
    D. 4 906

28 Zoe owns one of the biggest supermarkets in Sydney. Each week, she has a special offer on some of the products in her supermarket. She advertises these offers by comparing her prices with one of the other local supermarkets. Every week, the comparison is based on the ingredients for a certain dish.

This week, the comparison will be based on sushi. The ingredients and their prices at the other local supermarkets are shown in the table below.

ITEM	PRICE OF THE ITEM IN ANOTHER LOCAL SUPERMARKET
Rice	$1.95
Nori	$4.80
Wasabi	$6.45
Soy Sauce	$1.40
Salt	$1.40

One of each item listed in the table is needed to make the sushi. Zoe wants to advertise that her products are 25% cheaper in total. She decided to sell the Nori for $3.50, Rice for $1.50, Soy sauce and Salt for $1.05.

At what price should Zoe sell the Wasabi?

    A. $1.60
    B. $2.75
    C. $4.84
    D. $4.90

29 A movie theatre chain conducted a survey to determine who has watched Home Alone. They interviewed patrons under 30 years old, all of whom provided helpful answers. The results are as follows:

Age group	Number of movie theatre patrons who watched Home Alone.			
	Never	Only once	Only twice	More than twice
Under 17	15	15	20	6
18-29	25	36	10	3

Only counting the answer of patrons under 30 years old, what percentage of them saw Home Alone more than once?

    A.   30%
    B.   40%
    C.   10%
    D.   19%

30 A huge bazaar will take place at the World Trade Centre from 1st to 31st of August 2022. People who want to buy from the bazaar should buy entrance tickets to be able to enter the venue. Bella wants to go on the following dates of August: 3,7,8,9,12,15,16,20,21,22,23, and 24. The prices of the tickets are shown below.

Pass for 1 day	Pass for 3 consecutive days	Pass for 5 consecutive days
$12	$32	$45

How much is the cheapest valid combination Bella could use?

    A. $125
    B. $135
    C. $150
    D. $165