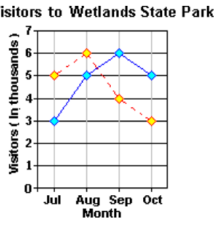
1. The line graph and the table indicate the number of visitors to Wetlands state park during a four-month period in 1989 and 1990. Compare the table and the graph to determine the year represented by the dotted line.

Year	Number of visitors in thousands			
	Jul	Aug	Sep	Oct
1989	3	5	6	5
1990	5	6	4	3



- ✓ a. 1990
- ✗ b. 1989
- ✗ c. Both
- ✗ d. None of the above

Hide solution

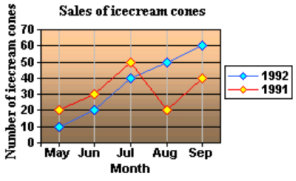
Solution:

In the line graph, dotted line represents the values 5, 6, 4 and 3.

In the table, the above values indicate number of visitors visiting the park during the 4 months in 1990.

1990 is the year represented by the dotted line.

2. From the double line graph, find the difference between the average number of ice-cream cones sold in the two successive years.



- ✗ a. 1
- ✗ b. 3
- ✗ c. 2
- ✓ d. 4

Hide solution

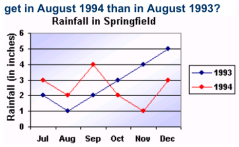
Solution:

= (10+20+40+50+60)5 = 1805= 36
Average number of cones sold in 1992
[Add the number of cones sold in all the months and divide by the number of months.]

= (20+30+50+20+40)5 = 1605= 32
Average number of cones sold in 1991
[Add the number of cones sold in all the months of 1991 and divide by 5.]

= 36 - 32 = 4
The difference between the average number of cones = average in 1992 - average in 1991
[Subtract.]

3. The graph shows the comparison of rainfall in Springfield during the second half of the two years 1993 and 1994. How much more rainfall did Springfield get in August 1994 than in August 1993?



- ✗ a. 4 in.
- ✗ b. 2 in.
- ✓ c. 1 in.
- ✗ d. 3 in.

Hide solution

Solution:

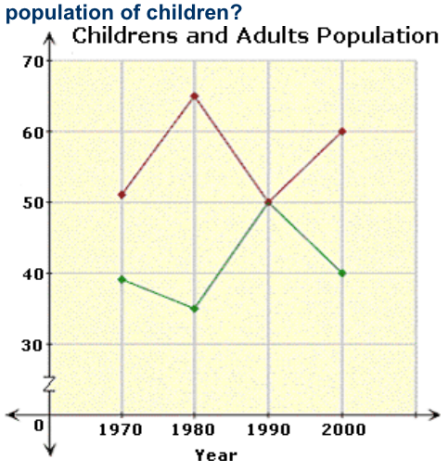
Each point on the line graph indicates the rainfall (in inches) in Springfield during the particular month of the year.

From the graph, the rainfall of Springfield in August 1993 was 1 in. and that in August 1994 was 2 in.

= 2 - 1 = 1 in.
The difference between the rainfall of Springfield in August of the two years = rainfall in August 1994 - rainfall in August 1993
[Subtract the smaller number from the greater number.]

So, the rainfall of Springfield in August 1994 was 1 in. more than that in August 1993.

4. In which year is the adult population equal to the population of children?

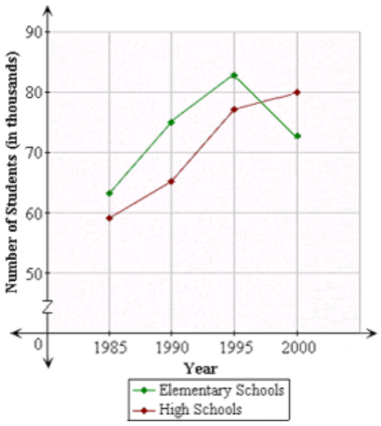


- ✓ a. 1990
- ✗ b. 1980
- ✗ c. 2000
- ✗ d. 1970

Hide solution

Answer: (a)

5. What is the difference between the number of children in Elementary and High schools in the year 2000?



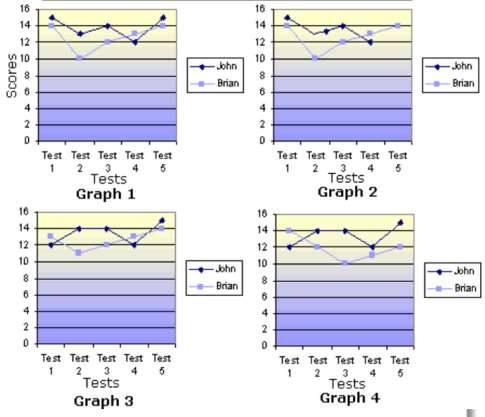
a. about 9,000
b. about 50
c. about 1
d. about 6,000

Hide solution

Answer: (d)

6. John and Brian appeared for math online tests. They recorded their scores on each test in a table as shown. After finishing 5 tests, they compared their scores using a double line graph. Identify the double line graph that compares their scores.

Name \ Tests	Test 1	Test 2	Test 3	Test 4	Test 5
John	14	10	12	13	14
Brian	15	13	14	12	15

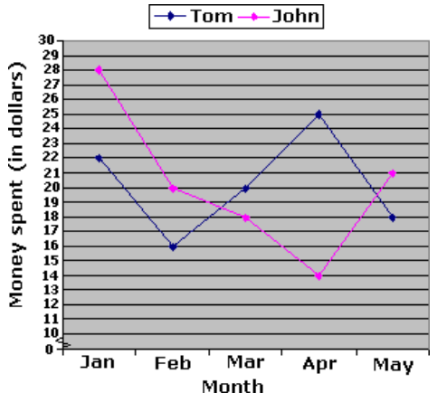


a. Graph 3
b. Graph 1
c. Graph 4
d. Graph 2

Hide solution

Answer: (b)

7. The double line graph shows the money spent by Tom and Jack in 5 months. Find the total amount spent by Tom and Jack in the month of April.

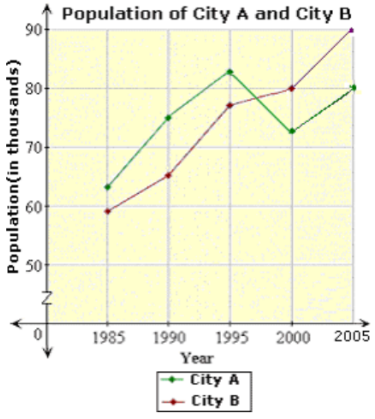


a. $11
b. $38
c. $37
d. $39

Hide solution

Answer: (d)

8. The following line graph compares the population of two cities from the year 1985 to 2005. Find the difference in the population of two cities in the year 2005.

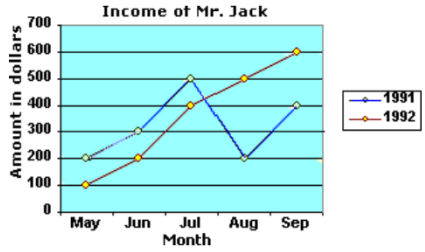


a. 90,000
b. 20,000
c. 80,000
d. 10,000

Hide solution

Answer: (d)

9. The double line graph compares the income of Mr. Jack in 5 months in the years 1991 and 1992. How much more did he earn in August, 1992 than in August, 1991?



✓ a. 300
✗ b. 400
✗ c. 500
✗ d. 200

Hide solution

Answer: (a)

10. The double line graph compares the number of employees in Company A and Company B. In which year, both the companies had the same number of employees?

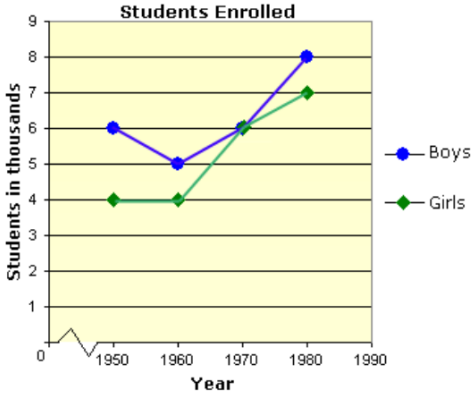
1

✗ a. 2005
✓ b. 2003
✗ c. 2004
✗ d. 2002

Hide solution

Answer: (b)

11. The line graph shows the number of girls and boys enrolled in a school in the past five decades. In which year was the number of girls enrolled equal to the number of boys in the school?

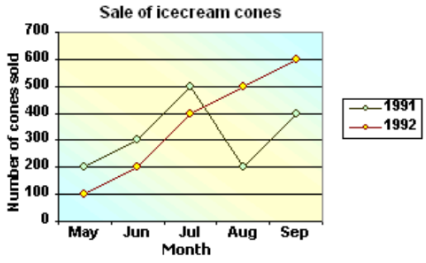


✗ a. 1980
✗ b. 1950
✗ c. 1960
✓ d. 1970

Hide solution

Answer: (d)

12. The double line graph compares the number of icecream cones sold in five months of 1991 and 1992. In which year was the total number of icecream cones sold the maximum?

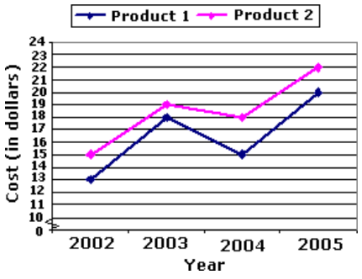


✗ a. 1991
b. 1992

View solution

Answer: (b)

13 The double line graph shows the cost of two different products in 4 years. Find the difference between the cost of two different products in the year 2004.

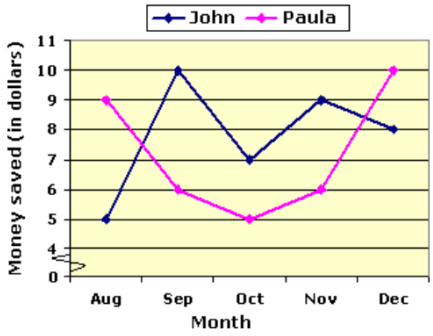


a. $1
b. $3
c. $4
d. $2

Hide solution

Answer: (b)

14 The double line graph shows the money saved by John and Paula in 5 months. Find the total amount saved by John and Paula in the month of December.

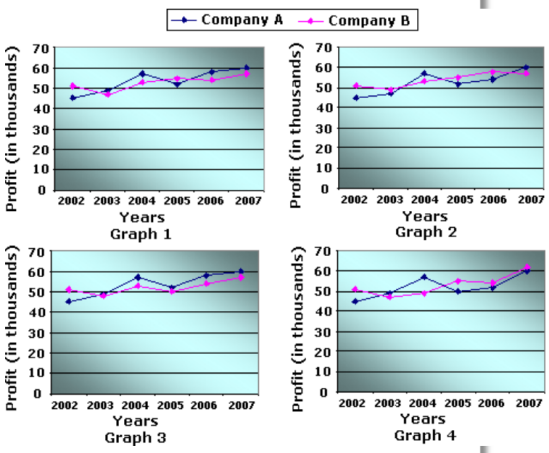


a. $16
b. $14
c. $18
d. $12

Hide solution

15 The annual profit of two companies for years from 2002 to 2007 is shown in the table. Pick an appropriate double line graph for the table.

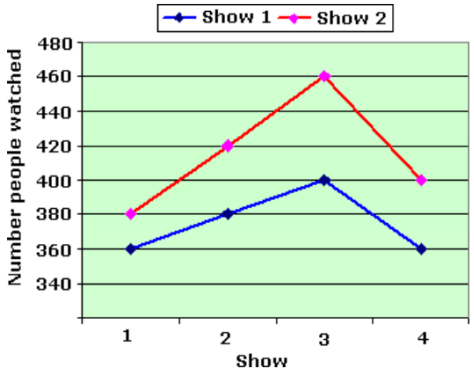
Year	2002	2003	2004	2005	2006	2007
Company A	45	49	57	52	58	60
Company B	51	47	53	55	54	57



a. Graph 4
b. Graph 2
c. Graph 3
d. Graph 1

Hide solution

16 The double line graph shows the number of people watched a particular movie in two different theaters in 4 shows. How many more people did watch in theater 2 than theater 1 in 2nd show?

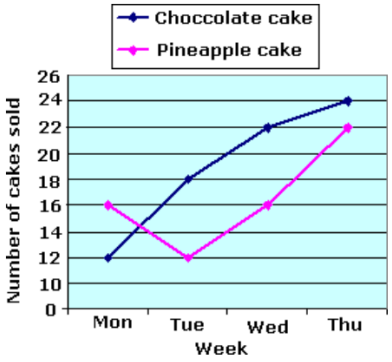


- ✗ a. 20
- ✓ b. 40
- ✗ c. 60
- ✗ d. 50

Hide solution

Answer: (b)

17 The double line graph shows the number of chocolate and pineapple cakes sold on 4 days. How many more chocolate cakes were sold on Tuesday than pineapple cakes?

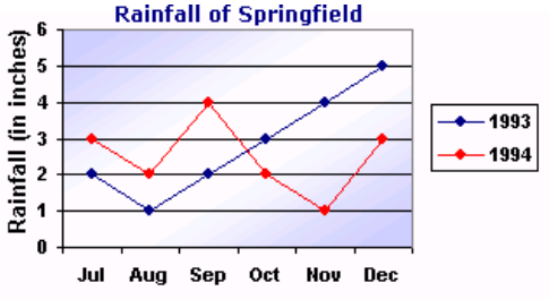


- ✗ a. 6
- ✗ b. 2
- ✗ c. 8
- ✓ d. 4

Hide solution

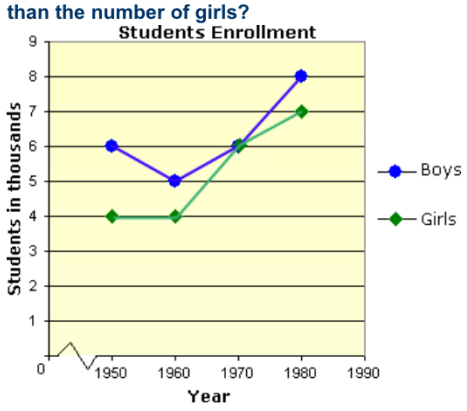
Answer: (d)

18 The double line graph shows the comparison of rainfall in Springfield during the second half of the two years 1993 and 1994. Find the difference between the rainfall in October.



- ✗ a. 2 in.
- ✗ b. 3 in.
- ✗ c. 5 in.
- ✓ d. 1 in.

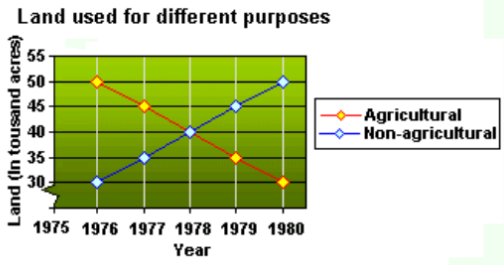
19 The line graph shows the number of girls and boys enrolled in a school during five decades. In which year was the number of boys enrolled in the school more than the number of girls?



- ✗ a. 1970
- ✓ b. 1980
- ✗ c. 1950
- ✗ d. 1960

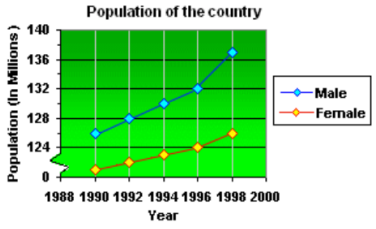
Hide solution

20 The double line graph shows the number of acres of land used for agricultural and non-agricultural purposes over five years. What is the trend shown by the graph of the agricultural lands?



- ✗ a. Increasing
- ✗ b. Stable
- c. Decreasing

21 The double line graph shows the population of the males and the females in a country in different years. What is the total population of the males and females in the year 1992?



- a. 300 million
- b. 250 million ✓
- c. 259 million
- d. 248 million

Hide solution

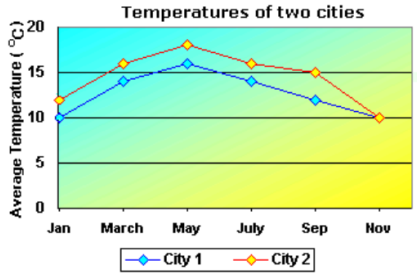
Solution:

The height of each point in the graph represents the population in the corresponding year.

From the graph, the population of male in 1992 is 128 millions and the population of female is 122 millions.

The total population of the males and the females in the year 1992 is 128 + 122 = 250 millions.

22 The line graph shows the average temperatures of two cities during six months. Up to which month did the temperatures of both the cities follow an increasing trend?



- a. January
- b. May ✓
- c. November
- d. July

Hide solution

Solution:

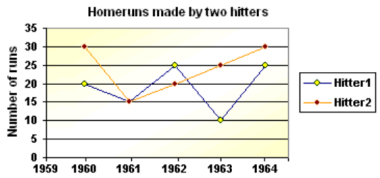
A graph is said to follow an increasing trend if one set of values tend to increase with increase in the other set of data values.

From the graph, the average temperature of City 1 increased gradually from January to May and then decreased upto November.

The average temperature of City 2 also increased from January to May and decreased upto November.

So, the temperatures of both the cities followed an increasing trend till the month of May.

23 The double line graph shows the home runs made by two hitters of baseball teams from 1960 through 1964. What is the difference between the ranges of home runs made by the two hitters?



- a. 10
- b. 15
- c. 5 ✓

Hide solution

Solution:

Highest runs made by hitter 1 = 25

Minimum runs made by hitter 1 = 10

Range = Maximum number of runs - Minimum number of runs = 25 - 10 = 15

Maximum runs made by hitter 2 = 30

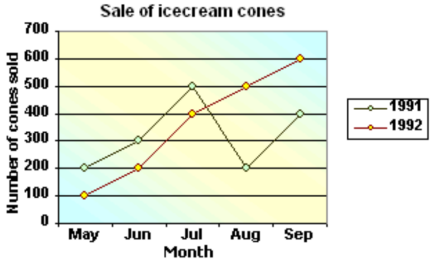
Minimum runs made by hitter 2 = 15

Range of runs = Maximum number of runs - Minimum number of runs = 30 - 15 = 15

Difference between the two ranges = 15 - 15 = 0

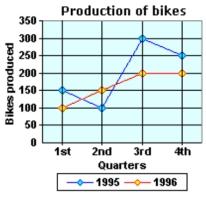
So, the difference between the ranges of home runs made by the two hitters is 0.

24 The double line graph compares the number of icecream cones sold in five months of 1991 and 1992. In which year was the total number of icecream cones sold the maximum?



- a. 1991
- b. 1992 ✓

25 The double line graph shows the number of bikes produced in four quarters of the years 1995 and 1996. In which quarter of 1996 was the number of bikes produced more than the number of bikes produced in the same quarter of 1995?



- a. ○ 4th quarter
- b. ○ 1st quarter
- c. ○ 3rd quarter
- d. ◉ 2nd quarter

Hide solution

Solution:

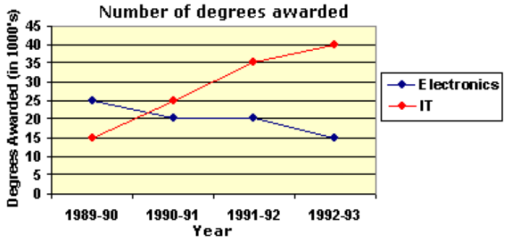
The height of each point on the graph indicates the number of bikes produced in the particular quarter of the year.

So, the number of bikes will be more in the quarter in which, the graph of 1996 is above the graph of 1995.

From the graph, the point representing the number of bikes produced in the 2nd quarter of 1996 is above the point representing the number of bikes produced in the 2nd quarter of 1995.

So, the number of bikes produced in the year 1996 was more than that in 1995 in the 2nd quarter.

26 The line graph shows the number of degrees awarded in Electronics and IT from 1989-90 to 1992-93. How many degrees were awarded in the branch of IT in the academic year 1991-92?



- a. ○ 40,000
- b. ○ 20,000
- c. ○ 25,000
- d. ◉ 35,000

Hide solution

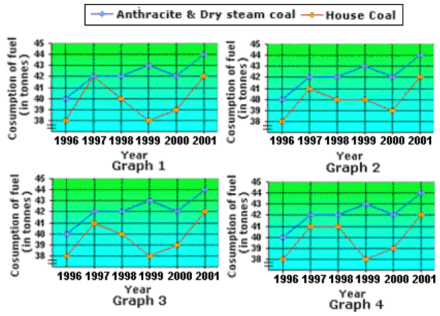
Solution:

In the above graph, the corresponding value to the year 1991-92 is 35.

So, there were 35,000 bachelor degrees awarded in the branch of IT in the year 1991-92.

27 The table shows the consumption of fuel over the years 1990-2001. Pick an appropriate double line graph for the table.

Years	1996	1997	1998	1999	2000	2001
House Coal	38	41	40	38	39	42
Anthracite & Dry Steam Coal	40	42	42	43	42	44



- a. ○ Graph 1
- b. ○ Graph 2
- c. ◉ Graph 3
- d. ○ Graph 4

Hide solution

Solution:

The information in the above table can be represented in the form of the double line graph by taking the years along the horizontal axis and the consumption of House Coal and Anthracite & Dry Steam Coal along the vertical axis.

Mark the values of the consumption of Anthracite and Dry Steam Coal in each year as given in the table by drawing the points.

Connect the points by drawing a line.

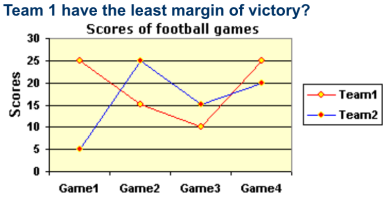
Mark the values of the consumption of House Coal in each year as given in the table by drawing the points.

Connect the points by drawing a line.

The graph obtained will be as shown in graph 3.

So, graph 3 is the appropriate double line graph for the table.

28 The double line graph represents the scores in 4 football games between two teams. In which game did Team 1 have the least margin of victory?



✓ a. Game4
✗ b. Game2
✗ c. Game3
✗ d. Game1

Hide solution

Solution:

Team 1 will have a margin of victory, if it makes higher score than Team 2.

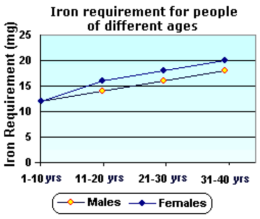
From the graph, Team 1 made higher score than Team 2 in Game1 and Game4.
[The graph of Team 1 is above the graph of Team 2 in Game1 and Game4.]

Victory margin in Game1 = 25 - 5 = 20
[In Game1, Team1 scored 25 and Team2 scored 5.]

Victory margin in Game4 = 25 - 20 = 5
[In Game4, Team1 scored 25 and Team2 scored 20.]

So, Team1 had the least margin of victory in Game4.
[The victory margin was low in Game4.]

29 The double line graph shows the iron requirement in males and females of different age groups. How much more iron is required for females than males under the age group of 21 - 30 years?



2

✓ a. 2 mg
✗ b. 4 mg
✗ c. 3 mg
✗ d. 1 mg

Hide solution

Solution:

The height of each point in the graph indicates the iron requirement of people under the particular age group.

From the graph, the iron requirement of females of 21 - 30 years is 18 mg.

The iron requirement of males under 21 - 30 years is 16 mg.

The difference between the iron requirements of males and females = 18 - 16 = 2 mg.

So, 2 mg more iron is required for females than males under the age group of 21 - 30 years.

30 The line graph shows the comparison of rainfall in Springfield during the second half of the two years 1993 and 1994. Pick an appropriate table for the line graph.

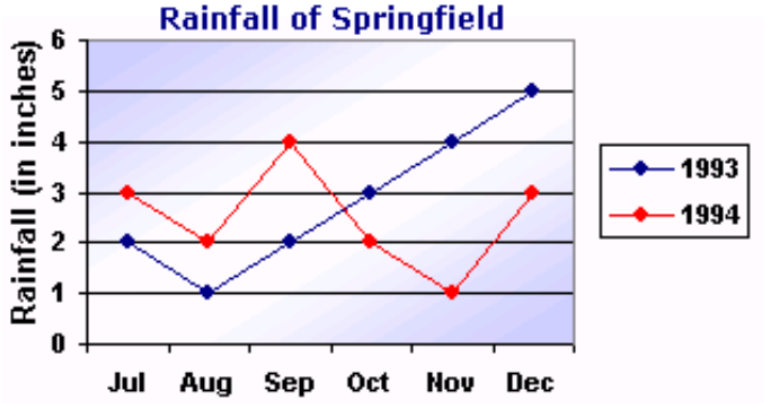


Table-1

Month	Jul	Aug	Sep	Oct	Nov	Dec
1993	2	1	2	3	4	5
1994	3	2	4	2	1	3

Table-2

Month	Jul	Aug	Sep	Oct	Nov	Dec
1993	1	1	3	2	4	5
1994	3	2	2	3	1	3

a. Table 1
✗ b. Table 2