What value should come in place of (?) in the following questions?

1) 6, 14, 27, 55, 111, 223

a) 55
b) 6
c) 27
d) 111
e) 14

2) 17, 28, 50, 83, 125, 182

a) 28
b) 125
c) 50
d) 182
e) 83

3) 48, 65, 91, 128, 180, 243

a) 48
b) 65
c) 91
d) 180
e) 128

4) 126, 64, 30, 14, 6, 2

a) 30
b) 6
c) 2
d) 64
e) 14

5) 544, 532, 512, 490, 460, 424

a) 532
b) 544
c) 460
d) 512
e) 424

1) I. $x^2 + 35x + 276 = 0$ II. $y^2 + 23y + 132 = 0$

a) $x < y$
b) $x > y$
c) $x \leq y$
d) $x \geq y$
e) $x = y$ or the relation cannot be established

2) I. $x^2 + 6x - 216 = 0$ II. $y^2 + 41y + 414 = 0$

a) $x < y$

b) $x > y$

c) $x \leq y$

d) $x \geq y$

e) $x = y$ or the relation cannot be established

3) I. $x^2 - 19x + 84 = 0$ II. $y^2 - 10y - 39 = 0$

a) $x < y$

b) $x > y$

c) $x \leq y$

d) $x \geq y$

e) $x = y$ or the relation cannot be established

4) I. $x^2 - 25x + 154 = 0$ II. $y^2 - 32y + 247 = 0$

a) $x < y$
b) $x > y$
c) $x \leq y$
d) $x \geq y$
e) $x = y$ or the relation cannot be established

5) I. $x^2 + 26x + 168 = 0$ II. $y^2 + 29y + 210 = 0$

a) $x < y$
b) $x > y$
c) $x \leq y$
d) $x \geq y$
e) $x = y$ or the relation cannot be established

Directions : Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in which of the statements are sufficient to answer the question. Choose your answer from the options based on this.

1) What is the age of Akash?

I. After 4 years, Akash will be 4 times his son's age.

II. Before 4 years, Akash was 5 times his daughter's age.

a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

c) If the data either in statement I alone or in statement II alone are sufficient to answer the question.

d) If the data in both the statements I and II together are not sufficient to answer the question

e) If the data in both the statements I and II together are necessary to answer the question.

2) At what price should the watch be sold to earn 5% profit?

I. A person incurs 10% loss by selling a watch.

II. A person incurs 5% loss by selling a watch for Rs.1140.

a) If the question can be answered by using statement I alone but not by using statement II alone.

b) If the question can be answered by using statement II alone but not by using statement I alone.

c) If the question can be answered by using either of the statements alone.

d) If the question can be answered by using both the statements together but not by either of the statements alone.

e) If the question cannot be answered by using any of the statements.

1) The ratio of age of A, B and C after 8 years is 4: 7: 5 and the sum of present ages of A and B is 8 less than thrice of C's present age, then what is the difference between the present age of A and C?

a) 2 years
b) 3 years
c) 5 years
d) 4 years
e) None of these

2) In 2015, the average daily expenditure of Raju from January to March is Rs. 26.8, from April to August is Rs. 16 and for the rest of the month is Rs. 20 respectively. Find the average daily expenditure of Raju in 2015.

a) Rs. 20

b) Rs. 22

c) Rs. 24

d) Rs. 18

e) None of these

3) Manik started a business with the capital of Rs. 15000 and after 4 months Nimit joined him with the capital of Rs. 14000 and after 8 months of the beginning Manik withdraw Rs. 3000. What is the profit share of Manik out of the total profit share of Rs. 16500 at the end of the year?

a) Rs. 9900
b) Rs. 7800
c) Rs. 7200
d) Rs. 9000
e) None of these

4) A small tank can be filled by two pipes X and Y individually in 30 minutes and 40 minutes respectively. If both the pipes are opened simultaneously, after how much time should pipe X be closed so that the unfilled part of the tank is filled in 5 minutes by pipe Y?

a) 18 minutes
b) 20 minutes
c) 12 minutes
d) 15 minutes
e) None of these

5) The difference between CI and SI on the same sum for 3 years at the rate of 20% per annum is Rs.96. What is the principal lent out?

a) Rs 850

b) Rs 550

c) Rs 750

d) Rs 650

e) RS 800

6) A boat can cover a certain distance in downstream in 7 hours and same distance in upstream in 10 hours. If the speed of the stream is 4.5 km/h, then how much time taken by the boat to cover 294 km in upstream?

a) 15 hours
b) 14 hours
c) 12 hours
d) 13 hours
e) 11 hours

8) 192 litres mixture of milk and water is mixed in an empty container in the ratio 5:3, respectively. If 32 litres of mixture is replaced with 32 litres of water then what will the ratio of milk to water in the resultant mixture?

a) 25:23

b) 18:13

c) 30:29

d) 15:14

e) 12:13

9) From 50 litres of pure milk, 5 litres are taken out and replaced with 5 litres of water. This process is done 2 more times. Now, how much water should be added into the solution so that it becomes 50% milk solution?

a) 22.9 litres
b) 21.8 litres
c) 24.6 litres
d) 25.1 litres
e) 19.8 litres

10) A shopkeeper allows a discount of 30% in an article. If the selling price of article is Rs. 4200 and the shopkeeper marked the article twice the cost price, then find the profit percent of the shopkeeper.

a) 25%

b) 45%

c) 35%

d) 40%

e) 20%

11) What is the probability that all the vowels in the word “TRUTHFULL” are together?

a) 1/9

b) 2/9

c) 2/3

d) 3/9

e) None of these

In the following question, two quantities numbered I and II are given. Calculate values of both quantities and choose the correct option.

1) Quantity I: Akbar gave 12% discount on the marked price of an article and earned the profit of 20%. He wished to increase the profit amount by 1.5 times, then what percent discount should he offer on the marked price so that his wish could be fulfilled?

Quantity II: 4.5%

a) Quantity II > Quantity I

b) Quantity II < Quantity I

c) Quantity I ≥ Quantity II

d) Quantity I ≤ Quantity II

e) Quantity I = Quantity II or relationship can't be established

2) Train A can cross a pole in 16 seconds and another train of length 300 meter running in opposite direction with speed 30 km/h in 24 seconds.

Quantity I: Length of train A in meters?

Quantity II: Length of a platform in meters if train A can cross the platform in 32 seconds.

a) Quantity I > Quantity II

b) Quantity I < Quantity II

c) Quantity I < Quantity II

d) Quantity I > Quantity II

e) Quantity I = Quantity II or relation can't be determined

3) The present average age of P, Q and R is 41 years and Q is 3 years younger than R. If Ratio of ages of P and R is 4: 5.

Quantity I: What is the average age of P and Q after 6 years?

Quantity II: What is the present age of R?

a) Quantity I = Quantity II or no relation can be established.

b) Quantity I ≥ Quantity II

c) Quantity I > Quantity II

d) Quantity I < Quantity II

e) Quantity I ≤ Quantity II

4) Quantity I: M, N and O enter into partnership with initial investment of Rs. 10000, Rs. 12000 and Rs. 8000 respectively. After 6 months, M again invested Rs. 10000 and further 6 months more N and O again invested Rs. 4000 and Rs. 8000 respectively. What is the share of the profit of N, if at the end of two years, the total profit earned is Rs.17400?

Quantity II: Rs. 5500

a) Quantity I < Quantity II

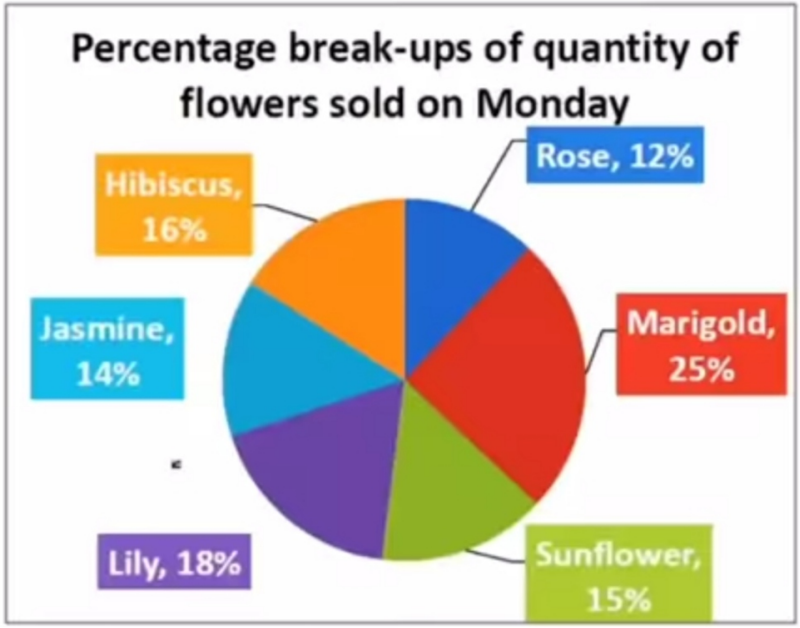
b) Quantity I > Quantity II

c) Quantity I ≤ Quantity II

d) Quantity I = Quantity II or no relation can be established.

e) Quantity I ≥ Quantity II

Following pie-chart represents the percentage break-ups of quantity (in kg) of different types of flowers sold from a shop on Monday.

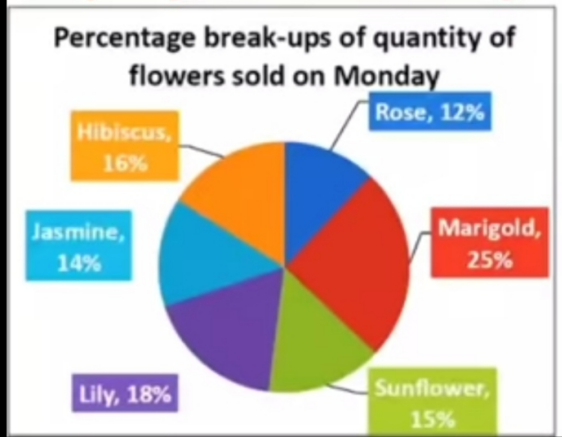


1) If the ratio of quantity of jasmines sold on Monday, Wednesday and Thursday is 5: 3: 4 respectively then find the quantity of jasmines (in kg) sold on Wednesday and Thursday together.

a) 350 kg b) 490 kg c) 420 kg d) 280 kg

e) 560 kg

Total quantity of flowers sold on Monday = 2500 kg

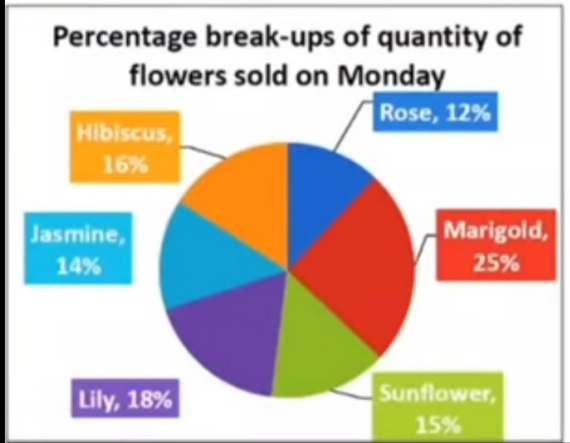


2) On Monday, if 25% roses sold are pink in color, 30% roses sold are red in color and remaining roses sold are yellow in color, then how much yellow roses (in kg) sold on Monday?

a) 135 kg b) 125 kg c) 130 kg d) 140 kg

e) 120 kg

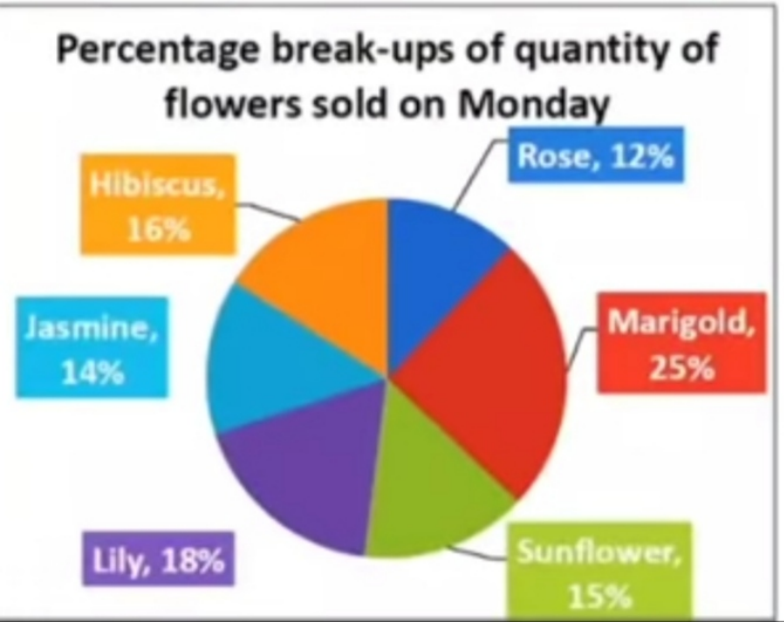
Total quantity of flowers sold on Monday = 2500 kg



3) What is the average of quantity (in kg) of roses and jasmines taken together on Monday?

a) 315 kg b) 345 kg c) 335 kg d) 355 kg e) 325 kg

Total quantity of flowers sold on Monday = 2500 kg

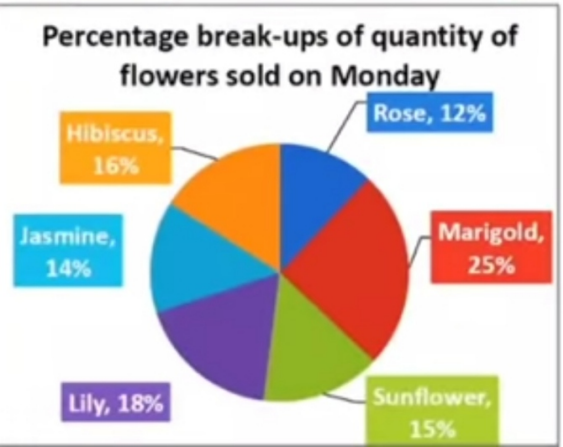


4) What is the difference between the quantity of lilies and sunflowers sold on Monday?

a) 45 kg b) 75 kg c) 55 kg d) 85 kg

e) 65 kg

Total quantity of flowers sold on Monday = 2500 kg

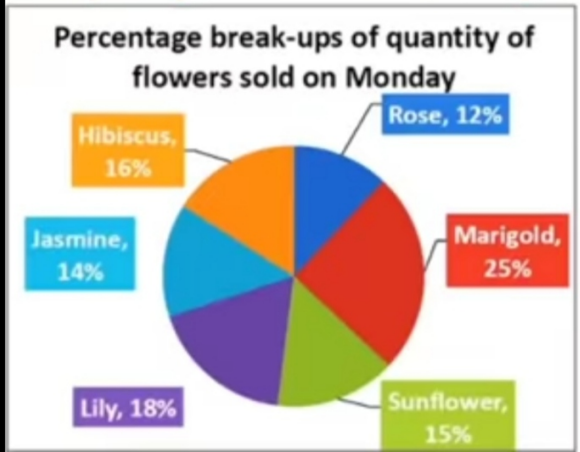


5) If average of quantity of marigolds sold on Monday and Tuesday taken together is 555, then sale of marigolds on Tuesday is what percent more/less than sale of hibiscus on previous day?

a) 28.45% b) 20.5% c) 21.25% d) 26.75%

e) 23.5%

Total quantity of flowers sold on Monday = 2500 kg



The table given below shows the total number of voters in six different societies. It also shows the ratio of the number of male voters to female voters.

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	1440	9:7

1) What is the ratio of number of male voters from society A to number of female voters from society B?

a) 1:1 b) 2:1 c) 3:2 d) 2:3

e) None of these

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	144	9:7

2) What is the number of male voters from society F?

a) 720

b) 810

c) 900

d) 540

e) None of these

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	144	9:7

3) Number of female voters from society E is how much percent more/less than number of male voters from society D?

a) 80%

b) 30%

c) 45%

d) 60%

e) None of these

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	144	9:7

4) What is the average number of female voters from society C and D?

a) 660

b) 640

c) 650

d) 630

e) None of these

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	144	9:7

5) What is the total number of male voters from society B and E together?

a) 1500

b) 1200

c) 1260

d) 1480

e) None of these

Societies	Total number of voters	Male voters: Female voters
A	840	9:5
B	1020	8:9
C	1350	3:2
D	1300	6:7
E	1680	3:4
F	144	9:7