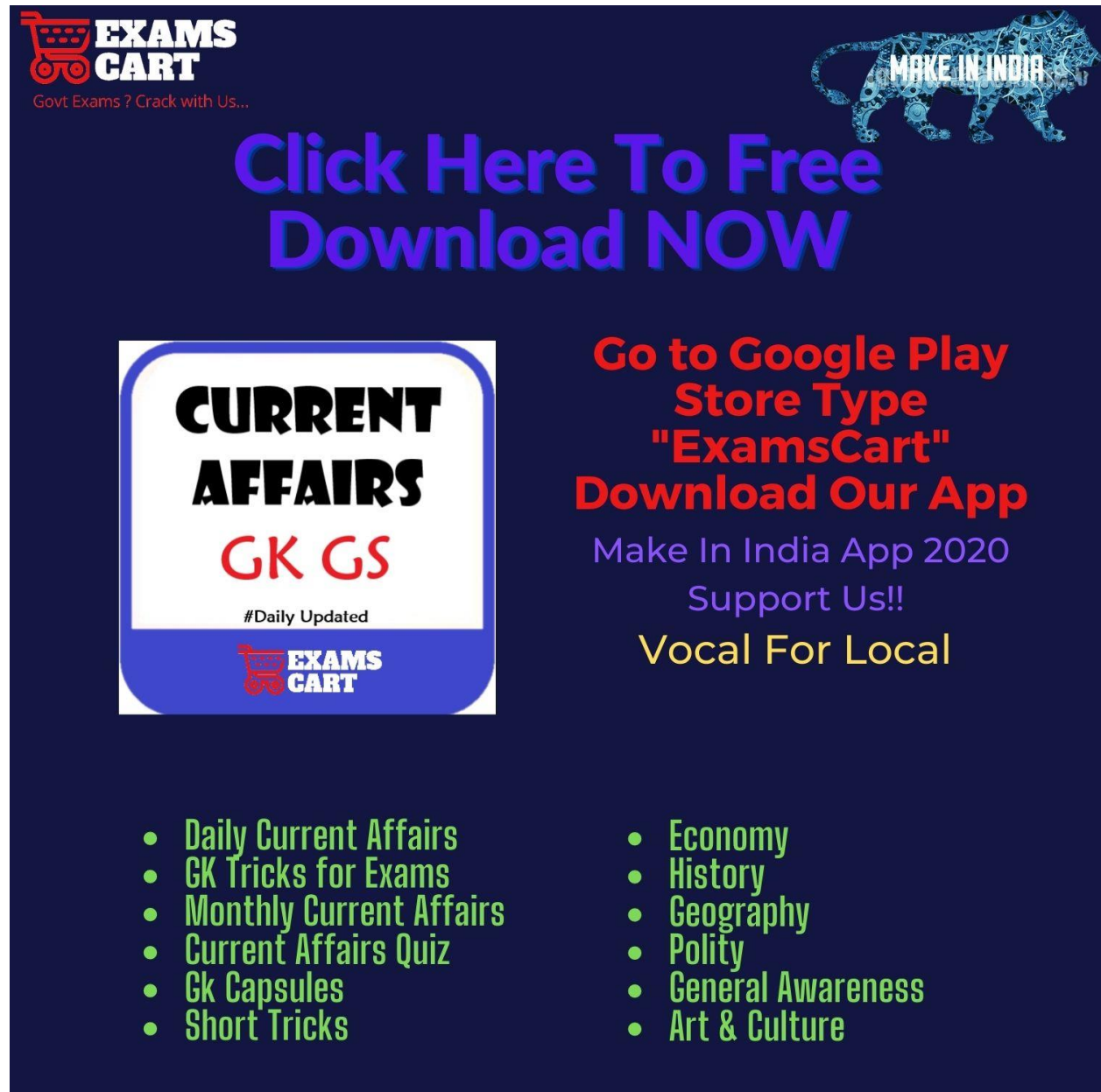# Ratio & Proportion

Questions & Solution

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Ratio & Proportion Questions with solution

An amount of money is to be divided between P, Q and R in the ratio of 3:7:12. If the difference between the shares of P and Q is Rs.X, and the difference between Q and R's share is Rs.3000. Find the total amount of money?
A.11000
B.12400
C.13200
D.14300
E.None of these
Answer & Explanation
Answer – **C.13200**
Explanation :
12a-7a = 3000
5a = 3000
a = 600
7a-4a = x
3a = x
x = 1800
22*600 = 13200

- **If a certain amount X is divided among A, B, C in such a way that A gets 2/3 of what B gets and B gets 1/3 of what C gets, which of the following is true**
A.C's Share = 1053 and X = 1666
B.A's Share = 238 and X = 1638
C.B's Share = 234 and X = 1666
D.C's Share = 1053 and X = 1638
E.A's Share = 351 and X = 1638
Answer & Explanation
Answer – **D.C's Share = 1053 and X = 1638**
Explanation :
A= 2/3 B; B= 1/3C;
A:B = 2:3 ; B:C = 1:3;
A:B:C = 2:3:9
C = 9/14 * 1638 = 1053

- **Seats for Mathematics, Science and arts in a school are in the ratio 5:7:8. There is a proposal to increase these seats by X%, Y% and Z% respectively. And the ratio of increased seats is 2:3:4, which of the following is true?**
A.X = 50; Z = 40
B.Y = 40; Z = 50
C.X = 40; Z = 75
D.X = 50; Z = 40
E.Y = 50; X = 75
Answer & Explanation

Answer – **C.X = 40; Z = 75**
Explanation :
Number of increased seats are (140% of 5x), (150% of 7x) and (175% of 8x)
i.e., (140/100 * 5x), (150/100 * 7x) and (175/100 * 8x)
i.e., 7x, 21x/2 and 14x
Required ratio = 7x:21x/2:14x
= 14x : 21x : 28x = 2:3:4

- **An amount of money is to be distributed among P, Q and R in the ratio of 7:4:5 respectively. If the total share of P and R is 4 times the share of Q, what is definitely Q's share?**
A.2000
B.4000
C.6000
D.Data inadequate
E.None of these
Answer & Explanation
Answer – **D.Data inadequate**
Explanation :
Total sum not given

- **Two candles of same height are lighted at the same time. The first is consumed in 3 hours and second in 2 hours. Assuming that each candles burns at a constant rate, in how many hours after being lighted, the ratio between the first and second candles becomes 2:1?**
A.2 hour
B.2.5 hour
C.4 hour
D.4.5 hour
E.None of these
Answer & Explanation
Answer – **D.4.5 hour**
Explanation :
Height of both candles are same i.e. h
First one takes 6 hours to burn completely, so in one hour = h/3
Similarly second one will burn in one hour = h/2
Let after t time, ratio between their height is 2:1
so, remaining height of first candle = h – t*(h/3)
similarly for second candle = h – t*(h/2)
ratio given 2:1,
h – t*(h/3) / h – t*(h/2) = 2/1
Solving we get t = 9/2 = 4.5

- **If A and B together have a certain amount X and if 4/15 of A's amount is equal to 2/5 of B's amount, which of the following is true?**
A.A = 1767; X = 2675
B.B = 1070; X = 2895
C.A = 1767; X = 2945
D.B = 1158; X = 2585
E.A = 1605; X = 2945
Answer & Explanation

Answer – **C.A = 1767; X = 2945**
Explanation :
4/15 * A = 2/5 * B
A= 2/3 B;
A:B = 3:2;
A = 3/5 * 2945 = 1767

• **A sum of Rs.4880 was divided among boys and girls in such a way that each boy gets Rs.44.50 and each girl get Rs. 55.25. If the total number of girls and boys is 100, find the number of girls?**
A.60
B.50
C.40
D.30
E.None of these
Answer & Explanation
Answer – **C.40**
Explanation :
x+y=100 ————— (i)
44.50x + 55.25y = 4880 ————— (ii)
Solving (i) and (ii) Y = 40

• **The income of Vinay and Prakash are in the ratio of 4:5 and their expenditure is in the ratio of 2:3. If each of them saves 5000, then find their income.**
A.11000, 8550
B.12000, 7750
C.15000, 8750
D.13000, 9780
E.None of these
Answer & Explanation
Answer – **C.15000, 8750**
Explanation :
4x – 2y = 5000 and 5x – 3y = 5000.
X = 8750, so income = 8750 and 15000

• **If the ratio of the first to second is 2:3 and that of the second to the third is 5: 8, then which of the following is true,**
A.Sum = 98; A = 48
B.Sum = 147; B = 30
C.Sum = 147; C = 45
D.Sum = 98; B = 30
E.Sum = 98; C = 72
Answer & Explanation
Answer – **D.Sum = 98; B = 30**
Explanation :
A:B:C = 10:15:24
If sum = 98, B = 15/49 * 98 = 30

• **A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2.If the total values of coins isX and the total amount in rupees is Y,thenwhich of the**

following is true
A.X = 840; Y = 260
B.X = 966; Y = 345
C.X = 840; Y = 280
D.X = 740; Y = 260
E.None of these

Answer & Explanation

Answer – **C.X = 840; Y = 280**

Explanation :

Value is given in the ratio 8:4:2.

(8x/0.25) + (4x/0.5) + (2x/1) = 840.

X = 20. Total amount, Y = 14*20 = 280

•

In a school the number of boys and girls are in the ratio of 4:7. If the number of boys are increased by 25% and the number of girls are increased by 15%. What will be the new ratio of number of boys to that of girls?

a) 100:131
b) 100:151
c) 100:161
d) 100:181
e) None of these

Answer & Explanation

Answer – **c) 100:161**

Explanation :

Boys = 4x and girls = 7x

Ratio = 4x*125/100 : 7x*115/100 = 100:161

• **When 40% percent of a number is added to another number the second number increases to its 20%. What is the ratio between the first and second number?**

a) 2:1
b) 1:2
c) 2:3
d) 3:4
e) None of these

Answer & Explanation

Answer – **b) 1:2**

Explanation :

(40/100)*a + b = (120/100)*b

a:b = 1:2

• **An amount of money is to be distributed among P, Q and R in the ratio of 5:4:7 respectively. If the total share of P and R is 3 times the share of Q, what is definitely Q's share?**

a) 2000
b) 4000
c) 6000
d) data inadequate
e) None of these

Answer & Explanation

Answer – **d) data inadequate**
Explanation :
Total sum not given

- **Two candles of same height are lighted at the same time. The first is consumed in 6 hours and second in 4 hours. Assuming that each candles burns at a constant rate, in how many hours after being lighted, the ratio between the first and second candles becomes 2:1?**
a) 1 hour
b) 2 hour
c) 3 hour
d) 4 hour
e) None of these

Answer & Explanation

Answer – **c) 3 hour**
Explanation :
Let height of both candles is 'h' and let after t times ratio between the height be 2:1
h – t*h/6 : h – t*h/4 = 2:1
t = 3

- **An employer reduces the number of his employees in the ratio of 7:4 and increases their wages in the ratio 3:5. State whether his bill of total wages increases or decreases and in what ratio.**
a) increases 20:21
b) decreases 21:20
c) increases 21:22
d) decreases 22:21
e) None of these

Answer & Explanation

Answer – **b) decreases 21:20**
Explanation :
Let initial employees be 7x and then 4x similarly initial wages be 3y and then 5y
so total wage = 21xy initially and then 20xy
so wages decreases and ratio = 21:20

- **A vessel contains milk and water in the ratio of 4:3. If 14 litres of the mixture is drawn and filled with water, the ratio changes to 3:4. How much milk was there in the vessel initially?**
a) 24
b) 32
c) 40
d) 48
e) None of these

Answer & Explanation

Answer – **b) 32**
Explanation :
milk = 4x and water = 3x
milk = 4x – 14*4/7 and water = 3x – 14*3/7 + 14
4x – 8: 3x + 8 = 3:4
X = 8, so milk = 8*4 = 32 litres

- **The ratio of two numbers is 3:4. If 3 is subtracted from both the numbers, the ratio becomes 1:2. Find the sum of the two numbers?**
a) 9
b) 10.5
c) 11.5
d) 12
e) None of these

Answer & Explanation

Answer – **b) 10.5**

Explanation :
$(3x – 3)/(4x – 3) = ½$
$x = 1.5$
sum of the numbers $= 7*1.5 = 10.5$

- **The sum of three numbers is 210. If the ratio between the first and second number be 2:3 and that between the second and third be 4:5, then the difference between the first and third number?**
a) 21
b) 35
c) 42
d) 56
e) None of these

Answer & Explanation

Answer – **c) 42**

Explanation :
a: b = 2:3 and b:c = 4:5
a:b:c = 8:12:15
Difference between first and third number $= (7/35)*210 = 42$

- **A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2. The total values of coins are 840. Then find the total amount in rupees.**
a) 220
b) 240
c) 260
d) 280
e) None of these

Answer & Explanation

Answer – **d) 280**

Explanation :
Value is given in the ratio 8:4:2.
$(8x/0.25) + (4x/0.5) + (2x/1) = 840.$
$X = 20.$ Total amount $= 14*20 = 280$

- **The income of Neha and Hitesh are in the ratio of 4:5 and their expenditure is in the ratio of 2:3. If each of them saves 2000, then find their income.**
a) 4000, 6000
b) 4000, 5000
c) 5000, 4000

d) 5000, 6000
e) None of these

Answer & Explanation

Answer – **b) 4000, 5000**

Explanation :

4x – 2y = 2000 and 5x – 3y = 2000.

X = 1000, so income = 4000 and 5000

•

A company reduces his employee in the ratio 14 : 12 and increases their wages in the ratio 16:18, Determine whether the bill of wages increases or not and in what ratio.

a) Decreases, 28: 27
b) Increases, 27:28
c) Decreases, 29:28
d) Increases, 28:29
e) None of these

Answer & Explanation

Answer – **a) Decreases, 28: 27**

Explanation :

Let initial employee be 14a and final employee be 12a similarly initial wage is 16b and final wage be 18b

Total initial wage = 14a * 16b = 224ab, total final wage = 12a* 18b = 216ab

So clearly wages decreases and ratio = 224ab: 216ab = 28:27

• **A bucket contains liquid A and B in the ratio 4:5. 36 litre of the mixture is taken out and filled with 36 litre of B. Now the ratio changes to 2:5. Find the quantity of liquid B initially.**

a) 55ltr
b) 56ltr
c) 57ltr
d) 58ltr
e) None of these

Answer & Explanation

Answer – **b) 56ltr**

Explanation :

Let A = 4x and B = 5x

Now, A = 4x – 36*4/9 and B = 5x – 36*5/9 + 36 Now, ratio between A and B = 2:5

X = 11.2 now B = 11.2*5 = 56

• **Two numbers are in the ratio of 5:6 and if 4 is added to the first number and 4 is subtracted from the second number then the ratio becomes 3:2. Find the difference between two numbers.**

a) 2.5
b) 3.5
c) 4.5
d) 6.5
e) None of these

Answer & Explanation

Answer – **a) 2.5**

Explanation :

(5x + 4)/ (6x -4) = 3/2

- **The income of riya and priya are in the ratio of 4:5 and their expenditure is in the ratio of 2:3. If each of them saves 2000, then find their income.**
a) 4000, 6000
b) 4000, 5000
c) 5000, 4000
d) 5000, 6000
e) None of these

Answer & Explanation

Answer – **b) 4000, 5000**

Explanation :

4x – 2y = 2000 and 5x – 3y = 2000.
X = 1000, so income = 4000 and 5000

- **A 50 litre of mixture contains milk and water in the ratio 2:3. How much milk must be added to the mixture so that it contains milk and water in the proportion of 3:2.**
a) 20
b) 25
c) 30
d) 35
e) None of these

Answer & Explanation

Answer – **b) 25**

Explanation :

(20 + x)/30 = 3/2

- **Two alloys contain platinum and gold in the ratio of 1:2 and 1:3 respectively. A third alloy C is formed by mixing alloys one and alloy two in the ratio of 3:4. Find the percentage of gold in the mixture**
a) 79.2/7%
b) 71.2/7%
c) 73.2/7%
d) 71.3/7%
e) None of these

Answer & Explanation

Answer – **d) 71.3/7%**

Explanation :

Platinum = 1/3 and 1/4
gold = 2/3 and 3/4
Alloy one and two are mixed in the ratio of 3:4, so ratio of platinum and gold in final ratio – 2:5
So gold % = (5/7)*100

- **The sum of three numbers is 980. If the ratio between first and second number is 3:4 and that of second and third is 3:7. Find the difference between first and last number.**
a) 380
b) 360
c) 340
d) 400
e) None of these

Answer & Explanation

Answer – **a) 380**
Explanation :
ratio between three numbers – 9:12:28
49x = 980, x = 20 difference between number = 19*20 = 380

- **The ratio between number of girls and boys in a school is 5: 6. If 40 percent of the boys and 20 percent of the girls are scholarship holders, what percentage of the students does not get scholarship?**
a) 68%
b) 69%
c) 71%
d) 80%
e) None of these

Answer & Explanation

Answer – **b) 69%**
Explanation :
Girls = 5x and boys = 6x
Girls that don't get scholarship = 5x * 80/100 = 4x and boys that don't get scholarship = 6x * 60/100 = 3.6x
Percent students that didn't get scholarship = (7.6x/11x)*100 = 69 (approx.)

- **A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2. The total values of coins are 840. Then find the total amount in rupees.**
a) 220
b) 240
c) 260
d) 280
e) None of these

Answer & Explanation

Answer – **d) 280**
Explanation :
Value is given in the ratio 8:4:2.
(8x/0.25) + (4x/0.5) + (2x/1) = 840.
X = 20. Total amount = 14*20 = 280

- **An amount is to be divided between A, B and C in the ratio 2:3:5 respectively. If C gives 200 of his share to B the ratio among A, B and C becomes 3:5:4. What is the total sum?**
a) 5000
b) 6000
c) 7000
d) 8000
e) None of these

Answer & Explanation

Answer – **b) 6000**
Explanation :
s2x, 3x + 200, 5x – 200
2x/(3x + 200) = 3/5, we will get x = 600, so total amount = 10*600 = 6000

-

A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2.

The total values of coins are 840. Then find the total number of coins
A.220
B.240
C.260
D.280
E.None of these

Answer & Explanation

Answer – **D.280**
Explanation :
Value is given in the ratio 8:4:2.
(8x/0.25) + (4x/0.5) + (2x/1) = 840.
X = 20. Total amount = 14*20 = 280

• **Two vessels contains equal quantity of solution contains milk and water in the ratio of 7:2 and 4:5 respectively. Now the solutions are mixed with each other then find the ratio of milk and water in the final solution?**
A.11:7
B.11:6
C.11:5
D.11:9
E.None of these

Answer & Explanation

Answer – **A.11:7**
Explanation :
milk = 7/9 and water = 2/9 – in 1ˢᵗ vessel
milk = 4/9 and water = 5/9 – in 2ⁿᵈ vessel
(7/9 + 4/9)/ (2/9 + 5/9) = 11:7

• **Two alloys contain gold and silver in the ratio of 3:7 and 7:3 respectively. In what ratio these alloys must be mixed with each other so that we get a alloy of gold and silver in the ratio of 2:3?**
A.2:1
B.3:1
C.4:3
D.3:5
E.None of these

Answer & Explanation

Answer – **B.3:1**
Explanation :
Gold = 3/10 and silver = 7/10 – in 1ˢᵗ vessel
gold = 7/10 and silver = 3/10 – in 2ⁿᵈ vessel
let the alloy mix in K:1, then
(3k/10 + 7/10)/ (7k/10 + 3/10) = 2/3. Solve this equation , u will get K = 3

• **The sum of three numbers is 123. If the ratio between first and second numbers is 2:5 and that of between second and third is 3:4, then find the difference between second and the third number.**
A.12
B.14
C.15

D.17
E.None of these

Answer & Explanation
Answer – **C.15**
Explanation :
a:b = 2:5 and b:c = 3:4 so a:b:c = 6:15:20
41x = 123, X = 3. And 5x = 15

- **If 40 percent of a number is subtracted from the second number then the second number is reduced to its 3/5. Find the ratio between the first number and the second number.**
A.1:3
B.1:2
C.1:1
D.2:3
E.None of these

Answer & Explanation
Answer – **C.1:1**
Explanation :
[b – (40/100)a] = (3/5)b.
So we get a = b.

- **The ratio between the number of boys and girls in a school is 4:5. If the number of boys are increased by 30 % and the number of girls increased by 40 %, then what will the new ratio of boys and girls in the school.**
A.13/35
B.26/35
C.26/41
D.23/13
E.None of these

Answer & Explanation
Answer – **B.26/35**
Explanation :
boys = 4x and girls = 5x.
Required ratio = [(130/100)*4x]/ [(140/100)*5x]

- **One year ago the ratio between rahul salary and rohit salary is 4:5. The ratio between their individual salary of the last year and current year is 2:3 and 3:5 respectively. If the total current salary of rahul and rohit is 4300. Then find the current salary of rahul.**
A.1200
B.1800
C.1600
D.2000
E.None of these

Answer & Explanation
Answer – **B.1800**
Explanation :
4x and 5x is the last year salry of rahul and rohit respectively
Rahul last year to rahul current year = 2/3
Rohit last year to rohit current year = 3/5
Current of rahul + current of rohit = 4300

(3/2)*4x + (5/3)*5x = 4300.

X = 300.

So rahul current salary = 3/2 * 4* 300 = 1800

- **A sum of 12600 is to be distributed between A, B and C. For every rupee A gets, B gets 80p and for every rupee B gets, C get 90 paise. Find the amount get by C.**

A.3200

B.3600

C.4200

D.4600

E.None of these

Answer & Explanation

Answer – **B.3600**

Explanation :

Ratio of money between A and B – 100:80 and that of B and C – 100:90

so the ratio between A : B :C – 100:80:72

so 252x = 12600, x = 50. So C get = 50*72 = 3600

- **The sum of the squares between three numbers is 5000. The ratio between the first and the second number is 3:4 and that of second and third number is 4:5. Find the difference between first and the third number.**

A.20

B.30

C.40

D.50

E.None of these

Answer & Explanation

Answer – **A.20**

Explanation :

a^2 + b^2 + c^2 = 5000

a:b:c = 3:4:5

50x^2 = 5000.

X = 10.

5x – 3x = 2*10 = 20

- **The ratio between two numbers is 7:5. If 5 is subtracted from each of them, the new ratio becomes 3:5. Find the numbers.**

A.7/2, 5/2

B.3/2, 7/2

C.9/2, 7/2

D.11/2, 5/2

E.None of these

Answer & Explanation

Answer – **A.7/2, 5/2**

Explanation :

(7x – 5)/(5x – 5) = 3/5

X = 1/2 so the numbers are 7/2 and 5/2

-

Three cars travel same distance with speeds in the ratio 2 : 4 : 7. What is the ratio of the

times taken by them to cover the distance?
A) 12 : 6 : 7
B) 14 : 7 : 4
C) 10 : 5 : 9
D) 7 : 4 : 14
E) 14 : 10 : 7
Answer & Explanation
B) 14 : 7 : 4
Explanation:
s = d/t
Since distance is same, so ratio of times:
1/2 : 1/4 : 1/7 = 14 : 7 : 4

• **Section A and section B of 7th class in a school contains total 285 students. Which of the following can be a ratio of the ratio of the number of boys and number of girls in the class?**
A) 6 : 5
B) 10 : 9
C) 11 : 9
D) 13 : 12
E) Cannot be determined
Answer & Explanation
B) 10 : 9
Explanation:
The number of boys and girls cannot be in decimal values, so the denominator should completely divide number of students (285).
Check each option:
6+5 = 11, and 11 does not divide 285 completely.
10+9 = 19, and only 19 divides 285 completely among all.

• **180 sweets are divided among friends A, B, C and D in which B and C are brothers also such that sweets divided between A and B are in the ratio 2 : 3, between B and C in the ratio 2 : 5 and between C and D in ratio 3 : 4. What is the number of sweets received by the brothers together?**
A) 78
B) 84
C) 92
D) 102
E) 88
Answer & Explanation
B) 84
Explanation:
A/B = N1/D1 B/C = N2/D2 C/D = N3/D3
A : B : C : D = N1*N2*N3 : D1*N2*N3 : D1*D2*N3 : D1*D2*D3
A/B = 2/3 B/C = 2/5 C/D = 3/4
A : B : C : D
2*2*3 : 3*2*3 : 3*5*3 : 3*5*4
4 : 6 : 15 : 20
B and C together = [(6+15)/(4+6+15+20)] * 180

- **Number of students in 4th and 5th class is in the ratio 6 : 11. 40% in class 4 are girls and 48% in class 5 are girls. What percentage of students in both the classes are boys?**

A) 62.5%

B) 54.8%

C) 52.6%

D) 55.8%

E) 53.5%

Answer & Explanation

B) 54.8%

Explanation:

Total students in both = 6x+11x = 17x

Boys in class 4 = (60/100)*6x = 360x/100

Boys in class 5 = (52/100)*11x = 572x/100

So total boys = 360x/100 + 572x/100 = 932x/100 = 9.32x

% of boys = [9.32x/17x] * 100

- **Consider two alloys A and B. 50 kg of alloy A is mixed with 70 kg of alloy B. A contains brass and copper in the ratio 3 : 2, and B contains them in the ratio 4 : 3 respectively. What is the ratio of copper to brass in the mixture?**

A) 8 : 5

B) 7 : 5

C) 5 : 11

D) 4 : 9

E) 5 : 7

Answer & Explanation

E) 5 : 7

Explanation:

Brass in A = 3/5 * 50 = 30 kg, Brass in B = 4/7 * 70 = 40 kg

Total brass = 30+40 = 70 kg

So copper in mixture is (50+70) – 70 = 50 kg

So copper to brass = 50 : 70

- **Ratio of A and B is in the ratio 5 : 8. After 6 years, the ratio of ages of A and B will be in the ratio 17 : 26. Find the present age of B.**

A) 72

B) 65

C) 77

D) 60

E) None of these

Answer & Explanation

A) 72

Explanation:

A/B = 5/8 , A+6/B+6 = 17/26

Solve both, B = 72

- **A bag contains 25p, 50p and 1Re coins in the ratio of 2 : 4 : 5 respectively. If the total money in the bag is Rs 75, find the number of 50p coins in the bag.**

A) 45

B) 50

C) 25
D) 40
E) None of these

Answer & Explanation

D) 40

Explanation:

2x, 4x, 5x

(25/100)*2x + (50/100)*4x + 1*5x = 75

x = 10, so 50 p coins = 4x = 40

- **A is directly proportional to B and also directly proportional to C. When B = 6 and C = 2, A = 24. Find the value of A when B = 8 and C = 3.**

A) 42
B) 40
C) 58
D) 48
E) None of these

Answer & Explanation

D) 48

Explanation:

A directly proportional B, A directly proportional to C:

$A = kB$, $A = kC$

Or $A = kBC$

When B = 6 and C = 2, A = 24:

$24 = k*6*2$

$k = 2$

Now when B = 8 and C = 3:

$A = 2*8*3$

- **A is directly proportional to B and also inversely proportional to the square of C. When B = 16 and C = 2, A = 36. Find the value of A when B = 32 and C = 4.**

A) 25
B) 20
C) 18
D) 32
E) None of these

Answer & Explanation

C) 18

Explanation:

$A = kB$, $A = k/C^2$

Or $A = kB/C^2$

When B = 16 and C = 2, A = 36:

$36 = k*16/2^2$

$k = 9$

Now when B = 32 and C = 4:

$A = 9*32/4^2$

- **A is directly proportional to the inverse of B and also inversely proportional to C. When B = 36 and C = 9, A = 42. Find the value of A when B = 64 and C = 21.**

A) 24

B) 40
C) 32
D) 48
E) None of these
Answer & Explanation
A) 24
Explanation:
A = k√B, A = k/C
Or A = k√B/C
When B = 36 and C = 9, A = 42:
42 = k√36/9
k = 63
Now when B = 64 and C = 21:
A = 63*√64/21

•

Divide Rs.2340 into three parts, such that first part be double that of second part and second part be 1/3 of the third part.Find the Third part amount?
A.Rs.780
B.Rs.1170
C.Rs.750
D.Rs.390
E.None of these
Answer & Explanation
Answer – **B.Rs.1170**
Explanation :
First: Second: Third = 2:1:3
Third part = 3*2340/6 = 1170

• **The ratio of income of A and B is 2:3. The sum of their expenditure is Rs.8000 and the amount of savings of A is equal to the amount of expenditure of B.What is the their ratio of sum of income to their sum of savings?**
A.5:3
B.3:2
C.4:3
D.3:1
E.None of these
Answer & Explanation
Answer -A.5:3
Explanation :
2I-E + E = 8000
I = 4000
Sum of their Income = 5*I = 5*4000 = 20,000
Sum of their Savings = 20000-8000 = 12,000
20000:12000 = 5:3

• **There are 2 containers of equal capacity. The ratio of milk to water in the first container is 4:5 and in the second container is 3:7.If they are mixed up then the ratio of milk to water in the mixture will be**
A.17:63

B.65:96
C.34:75
D.67:113
E.None of these

Answer & Explanation

Answer – **D.67:113**

Explanation :
4+5 = 9=> 40:50
3+7 = 10=> 27:63
40+27 : 50:63 = 67:113

• **There are two numbers. When 25% of the first number is added to the second number, the resultant number is 1.5times th first number.What is the ratio of 1ˢᵗ number to the 2ⁿᵈ number ?**
A.3:5
B.5:4
C.4:5
D.2:3
E.None of these

Answer & Explanation

Answer – **C.4:5**

Explanation :
A+25/100 + B = 1.5A
A/4 + B = 15A/10
10A+40B/40 =60A/40
10A+40B = 60A
50A = 40B
A/B = 4/5

• **A bag contains 10p,25p and Rs50p coins in the ratio of 5:2:1 respectively. If the total money in the bag is Rs.120.Find the number of 25p coins in that bag?**
A.160
B.130
C.110
D.90
E.None of these

Answer & Explanation

Answer – **A.160**

Explanation :
10*5 : 25*2 : 50*1 = 50:50:50 = 1:1:1
120/3 = Rs.40
Rs. 1 = 4
Rs.40 = 4*40 = 160 coins

• **The ratio of Ganesh's age and his mother's age is 5:12.The difference of their ages is 21.The ratio of their ages after 4 years will be**
A.3:7
B.6:11
C.4:7

D.19:40

E.None of these

Answer & Explanation

Answer – **D.19:40**

Explanation :

12x – 5x = 21

7x = 21

X = 3

5:12 = 15:36

After 4 years = 19:40

- **The ratio of students of three classes is 2:3:4. If 12 students are increased in each classes then their ratio turns into 13:18:23. What was the total number of students in all the three classes originally ?**

A.250

B.215

C.225

D.190

E.None of these

Answer & Explanation

Answer – **C.225**

Explanation :

50:75:100

15 students increased

65:90:115 => 13:18 :23

Total no of students = 50+75+100 = 225

- **Ravi and Govind have money in the ratio 5 : 12 and Govind and Kiran also have money in the same ratio 5 : 12. If Ravi has Rs. 500, Kiran has**

A.Rs.2500

B.Rs.2880

C.Rs.1850

D.Rs.3100

E.None of these

Answer & Explanation

Answer – **B.Rs.2880**

Explanation :

Ravi : Kiran = 5/12* 5/12 = 25/144

Kiran = 144*500/25 = 2880

- **A town with a population of 1000 has provision for 30days, after 10 days 600 more men added, how long will the food last at the same rate ?**

A.12 days

B.14 ½ days

C.12 ½ days

D.15 days

E.None of these

Answer & Explanation

Answer – **C.12 ½ days**
Explanation :
1000*20/1600 = 12 1/2 days

- **A man spends Rs.2480 to buy lunch box Rs.120 each and bottles at Rs.80 each,What will be the ratio of maximum number of bottles to lunch box are bought ?**
A.13:12
B.11:13
C.9:12
D.7:10
E.None of these

Answer & Explanation

Answer – **A.13:12**
Explanation :
Check the ans using option
13*80+ 12*120 = 1040+1440 = 2480