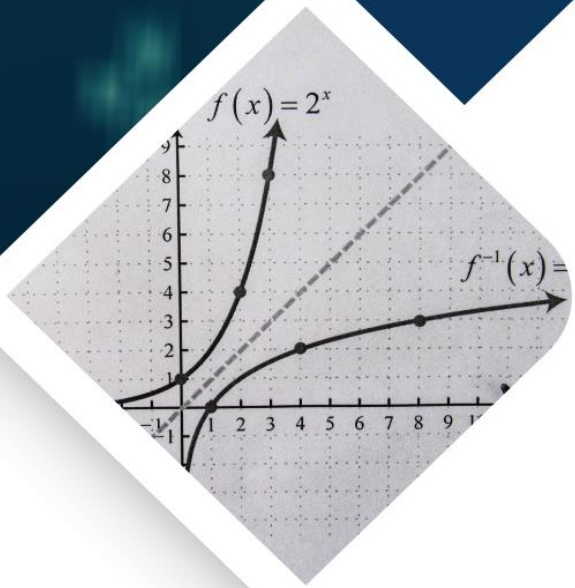
FOR SBI IBPS PO PRE

2025

31

QUANT CHECKLIST

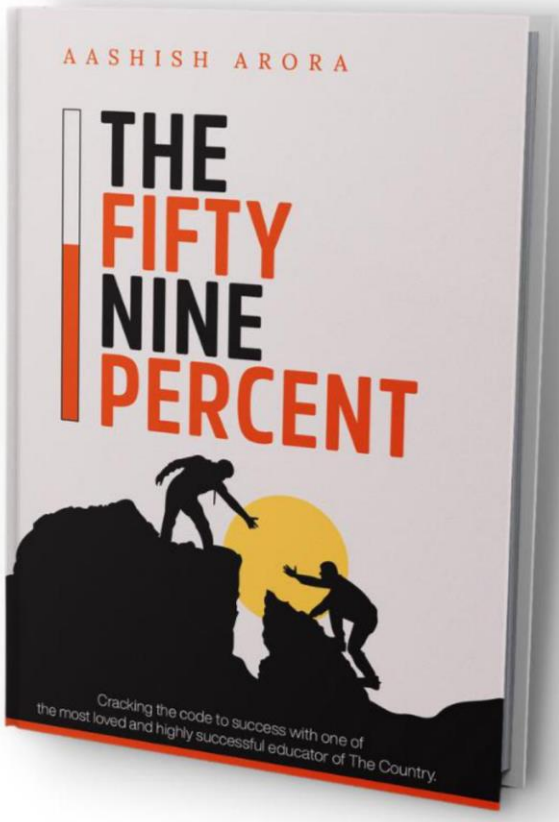
Practice Module by Aashish Arora



Comprehensive Practice Material for IBPS, SBI, RBI, RRB PO/Clerk Prelims, and other Bank Exams.

THE FIFTY NINE PERCENT

By Aashish Arora



A book filled with wisdom and simple hacks to increase your productivity, you can buy it by clicking the the button below

Buy Now ← **Click Here**

Cracking the code to success with one of the most loved and highly successful educator on unacademy .

CONTENTS

DEAR STUDENTS

We all dream about the day when we will crack XYZ examination, when will get a five-six-digit big salary, travel to all those beautiful places, buy new spacious house for our parents. Our entire focus is on the success, not the struggle. And it's totally understandable — because success is memorable , and everybody wants it, while the struggle is drab, disagreeable, and unattractive for the general public. But, it is the effort, struggling, and sticking to your resolutions that shapes you as a person. Success is a reward for giving your best, but it's not always within your control whether and when you get to enjoy it. Whenever you find yourself discouraged by your lack of success, remind yourself that it is not giving-up and working hard is your real reward. It's in your hands whether you allow yourself to see the rewards the struggle generates or ignore them, Whether you mindlessly see the end result as the sole indicator of success. I failed numerous times in life. I could have despaired that I had lost so much time and effort and money, but I hadn't really failed. I had been true to my values of pursuing the life I wanted. I kept going, despite the obstacles I constantly encountered along the way. Eventually my efforts paid off. But even if it would have taken longer to get my results — the struggle would still have been worth it for the immense changes I underwent on the journey to pursue my dreams. Eventually my efforts paid off, but even if it had taken longer to get the results — the struggle would still have been worth it for the immense changes I underwent on the journey to pursue my dreams.

Rise and Shine.

Aashish Arora

1. SIMPLIFICATION AND APPROXIMATION

Direction: What value should come in place of the question mark (?) in the following question?

(1) 85% of 7840 + 114 × 5 = ? + 240 × 9

(a) 4782

(b) 5074

(c) 5265

(d) 4454

(e) None of these

(2) (35325 ÷ 45) × 4 + 88 × 15 = ? × 5

(a) 856

(b) 486

(c) 472

(d) 892

(e) None of these

(3) {(29 × 18) + 486} ÷ 16 = ? × 25 + 40% of 280

(a) 7

(b) 8

(c) 4

(d) 3

(e) None of these

(4) ?% of 350 + (32 × 18) = 75% of 2868

(a) 640

(b) 450

(c) 320

(d) 320

(e) None of these

(5) (16 × 98 + 48 × 32) ÷ 16 = ? - 40% of 980 + 56

(a) 520

(b) 440

(c) 420

(d) 530

(e) None of these

(6) 38.45% of 962 + 42^2 = ?% of 2425

(a) 48

(b) 56

(c) 88

(d) 72

(e) None of these

(7) $16^3 + 28^2 + 17 \times 56 = ?\%$ of 288

(a) 2025

(b) 2565

(c) 3025

(d) 5025

(e) None of these

(8) 26.66% of 7275 + 54% of 98500 = ? × 15 + 6.25% of 13520

(a) 3743

(b) 3668

(c) 3234

(d) 3619

(e) None of these

(9) 90% of 780 - 22^2 - √3136 = √? + √6084

(a) 7056

(b) 3624

(c) 6842

(d) 8624

(e) None of these

(10) 75% of 48 × (58 - ?) + 80 = 1808

(a) 14

(b) 13

(c) 10

(d) 17

(e) None of these

(11) $16^2 - 18^2 + 56^2 = ? \times 4 \times 59$

(a) 13

(b) 17

(c) 11

(d) 15

(e) None of these

(12) (38 × 56) ÷ 16 ÷ 19 = ? - $\sqrt[3]{343}$

(a) 13

(b) 12

(c) 18

(d) 14

(e) None of these

(13) [{2(5/6) + 4(3/2)} × 336] - 785 = ? × 13

(a) 163

(b) 155

(c) 172

(d) 123

(e) None of these

(14) (? + 224 + 28 × 4) ÷ 4 + 4.5 × √324 = 14^2

(a) 152

(b) 168

(c) 124

(d) 162

(e) None of these

(15) 8648 + 572 + 794 - 852 - 708 = ? × 3

(a) 3214

(b) 2818

(c) 3642

(d) 2834

(e) None of these

(16) {(578 + 784) ÷ 6 + (1008 - 548) ÷ 5} + √2304 = ?

(a) 426

(b) 325

(c) 429

(d) 367

(e) None of these

(17) (√784 + 150% * 756 ÷ 18) ÷ 13 = ?

(a) 7

(b) 8

(c) 6

(d) 5

(e) None of these

(18) (24 × 56 ÷ 14) × 5 = $?^3$% of 48

(a) 14

(b) 16

(c) 10

(d) 12

(e) None of these

(19) 15(3/2) + 14(5/7) + 17(6/7) - 12(4/2) - 8(4/7) = ?

(a) 36.5

(b) 26.5

(c) 32.5

(d) 28.5

(e) None of these

(20) 18.75% of √4096 + 48% of 25 = ? - 8.33% of √2304

(a) 36

(b) 24

(c) 38

(d) 28

(e) None of these

Answers:

(1) B

(2) D

(3) A

(4) B

(5) D

(6) C

(7) A

(8) D

(9) A

(10) C

(11) A

(12) D

(13) B

(14) C

(15) B

(16) D

(17) A

(18) C

(19) B

(20) D

Solutions:

(1) 85% of 7840 + 114 × 5 = ? + 240 × 9

6664 + 570 = ? + 2160

7234 - 2160 = 5074

(2) (35325 ÷ 45) × 4 + 88 × 15 = ? × 5

784 × 4 + 1320 = 5x

3140 + 1320 = 5x

4460/5 = 892

(3) {(29 × 18) + 486} ÷ 16 = ? × 25 - 40% of 280

(522 + 486) / 16 = 25x - 112

1008 / 16 = 25x - 112

63 + 112 = 25x

175/25 = 7

(4) ?% of 350 + (32 × 18) = 75% of 2868

?% of 350 + 576 = 2151

?% of 350 = 1575

? = 1575 × 100 / 350 = 450

(5) (16 × 98 + 48 × 32) ÷ 16 = ? - 40% of 980 + 56

(1568 + 1536) / 16 = ? - 392 + 56

3104 / 16 = ? - 336

194 + 336 = 530

(6) 38.45% of 962 + 42^2 = ?% of 2425

5/13 × 962 + 1764 = ?% × 2425

370 + 1764 = ?% × 2424

2134 × 100 / 2425 = 88

(7) 16^3 + 28^2 + 17 × 56 = ?% of 288

4096 + 784 + 952 = ?% × 288

5832 × 100 / 288 = 2025

(8) 26.66% of 7275 + 54% of 98500 = ? × 15 + 6.25% of 13520

4/15 × 7275 + 53190 = 15x + 1/16 × 13520

1940 + 53190 = 15x + 845

55130 - 845 = 15x

54285 / 15 = 3619

(9) 90% of 780 - 22^2 - √3136 = √? + √6084

702 - 484 - 56 = √? + 78

162 - 78 = √?

84 = 7056

(10) 75% of 48 × (58 - ?) + 80 = 1808

36 × (58 - ?) = 1808 - 80

36 × (58 - ?) = 1728

(58 - ?) = 1728/36

58 - ? = 48

? = 10

(11) 16^2 - 18^2 + 56^2 = ? × 4 × 59

256 - 324 + 3136 = ? × 4 × 59

3068 / 4 × 59 = 13

(12) $(38 \times 56) \div 16 \div 19 = ? - \sqrt[3]{343}$

2128 / 16 × 19 = ? - 7

7 = ? - 7

14

(13) $[\{2(5/6) + 4(3/2)\} \times 336] - 785 = ? \times 13$

{(17/6 + 11/2) × 336} - 785 = 13x

50/6 × 336 - 785 = 13x

2800 - 785 = 13x

2015 / 13 = 155

(14) $(? + 224 + 28 \times 4) \div 4 + 4.5 \times \sqrt{324} = 14^2$

(? + 224 + 112) / 4 + 81 = 196

(? + 336) / 4 = 196 - 81

(? + 336) = 115 × 4

? = 460 - 336

? = 124

(15) 8648 + 572 + 794 - 852 - 708 = ? × 3

8454 / 3 = 2818

(16) {(578 + 784) ÷ 6 + (1008 - 548) ÷ 5} + √2304 = ?

1362 / 6 + 460 / 5 + 48 = ?

227 + 92 + 48 = 367

(17) (√784 + 150% * 756 ÷ 18) ÷ 13 = ?

(28 + 3*756/2*18) ÷ 12 = ?

(28+63) / 13 = ?

91 / 13 = 7

(18) (24 × 56 ÷ 14) × 5 = ?^{3}% of 48

96 × 5 = ?^{3}% × 48

480 × 100 / 48 = 1000 = 10

(19) 15(3/2) + 14(5/7) + 17(6/7) - 12(4/2) - 8(4/7) = ?

26 + {(21 + 10 + 12 - 28 - 8) / 14 } = ?

26 + (1/14) = 53 / 2

= 26.5

(20) 18.75% of √4096 + 48% of 25 = ? - 8.33% of √2304

3/16 × 64 + 12 = ? - 1/12 × 48

12 + 12 = ? - 4

24 + 4 = 28

2. ARITHMETIC QUESTIONS

(1) Shreya lent a sum of money to her friend at simple interest of 18% per annum. If Shreya's friend returns this money with interest of Rs 4320 after 8 years, then find the sum of money given by Shreya to her friend.

□□□□□□ □□ □□□□ □□□□□ □□ **18%** □□□□□ □□□□ □□ □□ □□ □□□□□□ □□□□□ □□ □□ □□□□□□ □□□□ □□□ □□□ □□□□□□ □□ □□□□□ **8** □□□□ □□□ □□ □□□□□□ **4320** □□□□□ □□□□□ □□ □□□ □□□□□□ □□, □□ □□□□□□ □□□□□□ □□□□ □□□□□ □□ □□ □□ □□□□□□ □□□□□ □□□□□ **?**

(a)5000

(b)3000

(c)2000

(d)1000

(e) None of these

(2) The ratio of the investment of P, Q, R and S is 2: 3: 5: 6. If all of them invested the money for 3 years. If the value of Q's share of profit at the end of 3 years is Rs 3300, find the total profit earned by all them together.

P, Q, R □□ **S** □□ □□□□□ □□ □□□□□□ **2: 3: 5: 6** □□□ □□□ □□□ □□ **3** □□□□ □□ □□□ □□ □□ □□□□□ □□□□□ □□□ **3** □□□□ □□ □□□ □□□ **Q** □□ □□□ □□ □□□□□□ **3300** □□□□□ □□, □□ □□□ □□□□□□ □□□□□□ □□□ □□□ □□□□□ □□□□□□

(a)17600

(b)17500

(c)17400

(d)17200

(e) None of these

(3) Binit and Shresth can finish a work in 16 days and 14 days respectively. They worked together for four days and then Binit left the work. How many more days will it take for Shresth to finish the work alone?

□□□□□ □□ □□□□□□□ □□ □□□ □□ □□□□□□ 16 □□□ □□ 14 □□□ □□□ □□□□ □□ □□□□ □□□□ □□□□□□□□ □□□ □□□ □□ □□□ □□□□□ □□□ □□□□ □□ □□□

□□□□□ □□ □□□ □□□□ □□□□□ □□□□□□□ □□ □□□□□ □□□ □□□□ □□□□ □□□ □□□□□ □□□ □□□□□□?

(a)6.8 days

(b)6.7 days

(c)6.6 days

(d)6.5 days

(e) None of these

(4) The ratio of the age of Amit after 6 years and that before 4 years is 18: 13 respectively. Find the present age of Amit.

□□□□ □□□□□ □□ □□□□ □□ □□□ □□□□ □□ □□□□□ □□ □□□□□□ □□ □□□□ □□□ 6 □□□ □□□ □□ 4 □□□ □□□□ □□□□ □□ □□□□ □□ □□□□□□ □□□□□□ 18:13 □□□ □□□□□ □□ □□□□□□ □□ □□□ □□□ □□□□□ □□□□□□

(a)30 years

(b)35 years

(c)34 years

(d)36 years

(e) None of these

(5) In a rectangle, the length is triple of breadth and the perimeter of the rectangle is 112 cm. Find the area of the rectangle.

□□ □□□ □□□, □□□□□ □□□□□□ □□ □□□□□□ □□ □□ □□□ □□ □□□□□□ **112** □□□□ □□□ □□□ □□ □□□□□□□□ □□□□□ □□□□□□

(a)585 cm^2

(b)586 cm^2

(c)588 cm^2

(d)580 cm^2

(e) None of these

(6) Vinod bought two bangles each for Rs 500. If he sold one bangles at 40% profit and sold another at 20% loss, then find whether he will face loss or profit overall and also find the percentage profit/loss.

□□□□□ □□ **500** □□□□□ □□□ □□ □□□□□□□□□ □□□□□□□ □□□ □□□□ □□ □□□□□ **40%** □□□ □□ □□□□ □□ □□□□□ □□ **20%** □□□□ □□ □□□□**,** □□ □□□□□ □□□□□ □□ □□□ □□□ □□□□□□ □□□□ □□□□ □□ □□□ □□ □□□ □□ □□□□□□□ □□□**/**□□□□**.**

(a)10% profit

(b)10% loss

(c)20% profit

(d)20% loss

(e) None of these

(7) In how many ways the letters of the word "POCKET" can be arranged so that vowels are always together?

□□□□ **"POCKET"** □□ □□□□□□□ □□ □□□□□ □□□□□□ □□ □□□□□□□□□ □□□□ □□ □□□□ □□ □□□□ □□□□ □□□□□ □□ □□□ □□□□**?**

(a)240

(b)450

(c)260

(d)480

(e) None of these

(8) A train of 480 meter length is moving at a speed of 48 km/hour. In how much time will it cross a man coming from the opposite direction at a speed of 6 km/hour?

480 □□□□ □□□□□ □□ □□□□□□□□ **48** □□□□/□□□□ □□ □□□ □□ □□ □□□ □□□ □□ □□□□□□□□ □□□□□□ □□□□ □□ **6** □□□□/□□□□ □□ □□□ □□ □ □□□ □□ □□□□□□□ □□ □□□□□ □□□ □□□ □□□ □□□□□**?**

(a)35 seconds

(b)32 seconds

(c)40 seconds

(d)36 seconds

(e) None of these

(9) A bag contains 9 Blue balls and 5 pink balls. If three balls are drawn at random, find the probability that 2 pink and 1 is blue.

□□ □□□ □□□ **9** □□□□ □□□□□□ □□ **5** □□□□□□ □□□□□□ □□□□ □□□ □□□ □□□□□□ □□□□□□□□□□ □□□ □□ □□□□□□ □□□□ □□□**,** □□ **2** □□□□□□ □□ **1** □□□□ □□□□ □□ □□□□□□□□ □□□□□ □□□□□□

(a)90/182

(b)45/183

(c)45/182

(d)42/182

(e) None of these

(10) 54 litres of milk is mixed with 9 litres of water. "I" litres of the mixture is sold and the amount of milk left in the mixture is 36 litres and the final ratio becomes 6:1. Find the value of "l".

54 □□□□ □□□ □□ **9** □□□□ □□□□ □□□ □□□□□□ □□□□ □□□ □□□□□□ □□ **"I"** □□□□ □□□□ □□□□ □□ □□ □□□□□□ □□□ □□□ □□□ □□ □□□□□□ **36** □□□□ □□ □□□□ □□□ **"l"** □□ □□□ □□□□□ □□□□□□

(a)26 l

(b)27 l

(c)28 l

(d)21 l

(e) None of these

(11) P and Q invested their money in the ratio (1/2): (1/5) and Q and R in the ratio (1/3) : (1/8). If the profit at the end of the year is 4216, what is the profit share of R?

P □□ **Q** □□ □□□□ □□□□ **(1/2): (1/5)** □□ □□□□□□ □□□ □□□□□ □□□□ □□ **Q** □□ **R** □□ **(1/3): (1/8)** □□ □□□□□□ □□□ □□□□□ □□□□□ □□□ □□□□ □□ □□□ □□□ □□□ **4216** □□**,** □□ **R** □□ □□□ □□□□□□ □□□□ □□**?**

(a)403

(b)408

(c)420

(d)400

(e) None of these

(12) A certain sum of money amounts to 5776 in 2 years at 26.66% per annum compounded annually, find the interest earned on the amount in 2 years.

□□ □□□□□□□□ □□□□□□□ **26.66%** □□□□□□□□ □□□□□□□□□□□□ □□□□□□ □□ □□ □□ **2** □□□□□□□ □□□□ **5776** □□ □□□□□ □□**, 2** □□□□□□□ □□□□ □□ □□□□□□□ □□ □□□□□□□ □□□□□□ □□□□□□ □□□□□□□

(a)2137

(b)2125

(c)2176

(d)2156

(e) None of these

(13) 8 women working for 6 hours a day complete a piece of work in 30 days. In how many days can 18 women working for 4 hours a day complete the same piece of work?

8 □□□□□□□□ □□□□□□□□□ **6** □□□□□ □□□□ □□□□□ □□ □□□□ **30** □□□□ □□□□ □□□□□ □□□□□ □□□□□ **18** □□□□□□□□ □□□□□□□□□ **4** □□□□□ □□□□ □□□□□ □□□□ □□□□ □□ □□□□□□ □□□□ □□□□ □□□□□ □□ □□□□□ □□□□?

(a)18 days

(b)20 days

(c)30 days

(d)22 daya

(e) None of these

(14) In a school, there are a total of 900 students and the ratio of boys to girls is 11: 7. If 85% of the students take part in sports and 70% of girls take part in sports then find the number of boys who take part in sports.

□□ □□□□□□ □□□□ □□□□ **900** □□□□□□ □□□□ □□ □□□□□□□ □□ □□□□□□□□□ □□ □□□□□□□ **11: 7** □□□□ □□□□ **85%** □□□□□□ □□□□ □□□□ □□□□ □□□□□ □□□□ □□ **70%** □□□□□□□□□ □□□□ □□□□ □□□□ □□□□□ □□□□ □□ □□□□□□ □□□□ □□□□ □□□□□ □□□□□ □□□□□□□ □□ □□□□□□□ □□□□□□ □□□□□□□

(a)520

(b)530

(c)500

(d)515

(e) None of these

(15) A mixture contains milk and water in the ratio 3 : 7 respectively. When 8 litres of water is added to the mixture, the ratio of water to milk becomes 33: 13. Calculate the quantity of initial mixture.

□□ □□□□□□ □□□ □□□ □□ □□□□ □□ □□□□□□ □□□□□□ **3:7** □□□ □□ □□□□□□ □□□ **8** □□□□ □□□□ □□□□□□ □□□□ □□**,** □□ □□□□ □□ □□□ □□ □□□□□□ **33:13** □□ □□□□ □□□ □□□□□□□□□□ □□□□□□ □□ □□□□□□ □□ □□□□ □□□□□□

(a)20 l

(b)50 l

(c)80 l

(d)70 l

(e) None of these

(16) The efficiency of A is (3/8) times the efficiency of B and efficiency of B is (1/2) times the efficiency of C. B can complete the work alone in 22 days. Find the time taken by A and C together to complete the work.

A □□ □□□□□□□ **B** □□ □□□□□□□ □□ **(3/8)** □□□□□ □□ □□ **B** □□ □□□□□□□ **C** □□ □□□□□□□ □□ **(1/2)** □□□□□ □□□ **B** □□□□□□ □□□□ □□ **22** □□□□□□ □□□ □□□□□ □□ □□□□ □□□ **A** □□ **C** □□□□□□□ □□□□□□ □□□□□□ □□□□□ □□□□□ □□□ □□□□□ □□□ □□□ □□□□□□ □□□□□□□

(a)4{5/19} days

(b)9{5/18} days

(c)9{5/19} days

(d)8{5/19} days

(e) None of these

(17) A super bike travels from Punjab to Mumbai at the rate of 180 km/hour and returns to Punjab from Mumbai at the rate of 220 km/hour. Find the average speed of a super bike for the whole journey.

□□ □□□□ □□□□ □□□□□ □□ □□□□□ □□ **180** □□□□/□□□□ □□ □□□ □□ □□□□□□ □□□□ □□ □□ □□□□□ □□ □□□□□ **220** □□□□/□□□□ □□ □□□ □□ □□□□ □□□ □□□ □□□□ □□□□□□ □□ □□□□□ □□□□ □□□□ □□ □□□ □□□ □□□□□ □□□□□□

(a)198 km/hr

(b)300 km/hr

(c)140 km/hr

(d)300 km/hr

(e) None of these

(18) The length of a rectangle is reduced by 25% while its breadth is increased by 25%. The new area is 35 sq. units less than the original area. Find the original area.

□□ □□□ □□ □□□□□ **25%** □□ □□ □□ □□□□ □□ □□□□ □□□□ □□□□□□ **25%** □□□□ □□ □□□□ □□□ □□□ □□□□□□□□□ □□□ □□□□□□□□□ □□ **35** □□□□ □□□□ □□ □□□ □□□ □□□□□□□□□ □□□□□ □□□□□□

(a)1080 sq.units

(b)1070 sq.units

(c)1050 sq.units

(d)1020 sq.units

(e) None of these

(19) The ratio of the speeds of boat "A" and boat "B" in still water is 5:6 respectively. The speed of the current is 25 km/hr. Boat "A" takes 6 hours to travel 360 km downstream. Find the time taken by boat "B" to travel 323 upstream.

□□□□□ □□ □□□ □□□ **"A"** □□ □□□ **"B"** □□ □□□ □□ □□□□□□ □□□□□□ **5:6** □□□ □□□□ □□ □□□ **25** □□□□/□□□□ □□□ □□□ **"A"** □□ □□□□ □□ □□□□□□ **360** □□□□ □□ □□□□□□ □□□□ □□□ **5** □□□□ □□□□ □□□□ □□□ **"B"** □□□□□□ □□□□ □□ □□□□□□□□ □□□□ □□□ **323** □□□□ □□□□□□ □□□□ □□□ □□□□ □□□ □□□ □□□□□ □□□□□□

(a)18 hr

(b)15 hr

(c)19 hr

(d)17 hr

(e) None of these

(20) How many ml of water should be added to 18 liters of fevicol with 25% preservatives, so that the amount of preservation in the mixture is 40% ?

25% □□□□□□□□□ □□□□□ **18** □□□□□ □□□□□□□□ □□□□ □□□□□□ □□□□□□□□□ □□□□□ □□□□□□□ □□□□□ □□□□□□, □□□□□ □□□□□□□ □□□□ □□□□□□□□□ □□ □□□□□□□ **40%** □□ □□□□?

(a)4.4 l

(b)4.5 l

(c)4.6 l

(d)4.8 l

(e) None of these

Answers:

(1)b

(2)a

(3)d

(4)a

(5)c

(6)a

(7)a

(8)b

(9)c

(10)d

(11)b

(12)c

(13)b

(14)a

(15)c

(16)c

(17)a

(18)e

(19)c

(20)b

Solutions:

(1) Interest for 8 years = 4320 Interest for 1 year = 540

18% ……540

100%..... Rs 3000

Required sum = Rs 3000

(2)Required profit = 16/3 × 3300 =17600

(3)Let the total work be 122 units.

Binit one day work = 7 units

Shresth one-day work =8 units

Work done by in Binit & Shresth in 4 days = 60 units

Remaining work =52 units

Required no. of days =52/8 =6.5 days

(4) Present age = x

$\frac{x+6}{x-4} = \frac{18}{13}$

13x + 78 =18x – 72

5x = 150

x = 30 years

(5) Ratio of length to breadth =3:1

Perimeter=112

2(3x+x) =112

4 x=56

x=14

Length=42 cm

Breadth=14 cm

Area =42*14 =588 cm^2

(6)Ratio of CP to sp on 1st bangle = 5:7

Ratio of CP to SP on 2nd bangle= 5:4

Overall ratio of CP to SP=10:11

Profit % = 1/10 x 100 = 10%

(7)Required numbers of ways = 5! X2! = 240

(8)Speed of both train and man when running in opposite direction= 54*5/18 m/s

Required time = (480X18)/54*5 seconds

=32 seconds

(9) Required proliability = ${}^{9}C_{1} * {}^{5}C_{2} / {}^{14}C_{3}$ =45/182

(10) Initial mixture – 63l

Final mixture= milk = 6x = 36

x = 6

Water left in the final mixture = 6l

Final mixture = 36 + 6

42l

So, l = 63 – 42 = 21

21 litres

(11)Ratio of investment of P, Q and R = 20:8:3

31 unit =4216

1 unit = 136

R's share = 3X136 = Rs 408

(12)P * 19/15 * 19/15 = 5776

P = 3600

Interest= Rs (5776 - 3600) =2176

(13) 8 * 30 * 6 = 18 * D * 4

D =20 days

(14)Total boys = 550

Total girls = 350

Total student who took part in sports =765

Total girls who took part in sports= 245

Total boys who took part in sports = 520

(15) Initial ratio of milk and water =3:7

By solving we get,

3x/7x+8=13/33

99x= 91x +104

8x = 104

x=8

Initial quantity=10*8 = 80 litres

(16) Required efficiency of A B & C

= 3:8:16

total work = 22X8 = 176 units.

Required no. Of days =176/19 =9(5/19) days

(17) Average speed = 2*180*220/400 =198 km/hr

(18) Ratio of length =4:3

Ratio of breadth=4:5

Ratio of area =16:15

1 unit = 35 sq.units

16 units = 560sq units

(19)let the speed of boat 'A' and boat 'B' be 5a and 6a

Speed of stream =25 km/hr

360/5a+25=6

a=7

Speed of boat 'B' =6*7 =42 km/hr

Speed of upstream =17 km/hr

Required time = 323/17 =19 hours

(20)18*75=(18+x)*60

1350=1080+60x

x=4.5 liter

3. Quadratic Equations

In each of the following questions, there are two equations. You have to solve both equations and mark the correct answer.

(a) $x > y$

(b) $x < y$

(c) $x = y$ or the relationship cannot be established

(d) $x \geq y$

(e) $x \leq y$

1.) I. $2x^2 - 29x + 84 = 0$

II. $3y^2 - 33y + 72 = 0$

2.) I. $x^2 + 13x - 114 = 0$

II. $y^2 - 26y + 144 = 0$

3.) I. $6x^2 + 17x - 58 = 0$

II. $8y^2 - 44y + 56 = 0$

4.) I. $x^2 - 21x + 98 = 0$

II. $4y^2 - 44y + 120 = 0$

5.) I. $10x^2 + 18x - 28 = 0$

II. $12y^2 - 40y + 32 = 0$

6.) I. $10x^2 - 25x + 18 = 3x^2 - 5x + 6$

II. $y^2 - 14y + 20 = -7y + 8$

7.) I. $x^2 - 27x + 182 = 0$

II. $y^2 - 29y + 210 = 0$

8.) I. $3x^2 - 29x + 56 = 0$

II. $4y^2 + 16y - 48 = 0$

9.) I. $x^2 - 18x + 72 = 0$

II. $y^2 - 30y + 216 = 0$

10.) I. $8x^2 - 41x + 51 = 0$

II. $2y^2 - 23y + 60 = 0$

11.) I. $x^2 - 28x + 147 = 0$

II. $y^2 - 13y + 42 = 0$

12.) I. $2x^2 - 13x + 18 = 0$

II. $y^4 = 256$

13.) I. $15x^2 - 48x + 36 = 0$

II. $18y^2 - 48y + 32 = 0$

14.) I. $x^2 + 13x - 90 = 0$

II. $y^2 + 41y + 418 = 0$

15.) I. $4x^2 - 30x + 56 = 0$

II. $8y^2 - 52y + 84 = 0$

16.) I. $5x^2 - 17x + 14 = 0$

II. $y^2 - 8y + 15 = 0$

17.) I. $5x^2 + 12x - 65 = 0$

II. $9y^2 - 58y + 88 = 0$

18.) I. $x^2 - 36x + 324 = 0$

II. $y^2 - 30y + 225 = 0$

19.) I. $2x^2 - 15x + 28 = 0$

II. $3y^2 - 27y + 60 = 0$

20.) I. $x^2 + 6x - 135 = 0$

II. $y^2 - 27y + 162 = 0$

Answers:

1. C
2. B
3. E
4. A
5. B
6. B
7. E
8. A
9. E
10. B
11. D
12. D
13. C
14. A
15. D
16. B
17. C
18. A
19. E
20. E

Answers:

(1) x = 10.5,4

y = 7,3

(2) x = -19,6

y = 18,8

(3) x= -29/6,2

y = 28/8,2

(4) x = 14,7

y = 5,6

(5) x = -28/10,1

y = 16/12,2

(6) x = 6/7,2

y = 3,4

(7) x= 14,13

y= 14,15

(8) x = 7,8/3

y= -6,2

(9) x = 12,6

y = 12,18

(10) x = 17/8, 3

y = 15/2, 4

(11) x = 21,7

y = 7,6

(12) x = 9,4

y = -4,4

(13) x = 18/15,2

y = 24/18,24/18

(14) x = -18,5

y= -19,-22

(15) x = 14/4,4

y = 28/8,3

(16) x = 7/5, 2

y = 3, 5

(17) x = -5,13/5

y = 4,22/9

(18) x = 18,18

y = 15,15

(19) x = 4,7/2

y = 4,5

(20) x= -15,9

y= 9,18

4. WRONG NUMBER SERIES

(1) 74, 36.5, 56.25, 143.125, 504.4375

(a)56.25

(b)74

(c)143.125

(d)36.5

(e) None of these

(2) 0.5, 14, 26.5, 38, 48.5, 59

(a)38

(b)14

(c)0.5

(d)59

(e) None of these

(3) 1024, 270, 61, 19.25, 0.8125

(a)270

(b)1024

(c)19.25

(d)61

(e) None of these

(4) 1, 2, 4, 9, 16, 32

(a)4

(b)1

(c)9

(d)32

(e) None of these

(5) 2, 11, 40, 88, 158, 247

(a)88

(b)2

(c)40

(d)247

(e) None of these

(6) 19, 62, 103, 148, 195, 244

(a)244

(b)195

(c)19

(d)62

(e) None of these

(7) 20, 140, 840, 4300, 16800, 50400

(a)840

(b)20

(c)4300

(d)140

(e) None of these

(8) 122, 600, 1200, 1200, 600, 120

(a)600

(b)1200

(c)120

(d)122

(e) None of these

(9) 2, 3, 8, 29, 112, 678

(a)29

(b)3

(c)678

(d)2

(e) None of these

(10) 12, 19, 31, 52, 81, 131

(a)31

(b)12

(c)52

(d)131

(e) None of these

(11) 2, 11, 13, 22, 24, 34

(a)22

(b)11

(c)2

(d)34

(e) None of these

(12) 100, 10, 3, 0.6, 0.24, 0.12

(a)100

(b)3

(c)0.12

(d)0.6

(e) None of these

(13) 800, 200, 102, 75, 75, 93.75

(a)102

(b)75

(c)93.75

(d)200

(e) None of these

(14) 2, 16, 59, 185, 769, 2321

(a)2321

(b)16

(c)2

(d)185

(e) None of these

(15) 182, 201, 243, 327, 495, 831

(a)327

(b)182

(c)831

(d)243

(e) None of these

(16) 6, 7, 25, 93, 436, 2305

(a)25

(b)6

(c)7

(d)2305

(e) None of these

(17) 62, 59.5, 64.5, 57, 69, 50.5

(a)59.5

(b)62

(c)57

(d)69

(e) None of these

(18) 7204, 3606, 1204, 310, 72, 24

(a)3606

(b)72

(c)1204

(d)310

(e) None of these

(19) 82, 115, 147, 187, 236, 297

(a)115

(b)297

(c)82

(d)187

(e) None of these

(20) 4, 6, 12, 24, 44, 76

(a)24

(b)6

(c)4

(d)76

(e) None of these

Answers:

(1) b

(2)d

(3)a

(4)c

(5)a

(6)d

(7)c

(8)d

(9)a

(10)c

(11)d

(12)b

(13)a

(14)d

(15)b

(16)a

(17)c

(18)c

(19)a

(20)d

Solutions:

(1)*0.5+0.5, *1.5+1.5, *2.5+2.5, *3.5+3.5

(2)+13.5, +12.5, +11.5, +10.5, +9.5

(3)÷4+4, ÷4-4, ÷4+4, ÷4-4

(4)$+2^0$, $+2^1$, $+2^2$, $+2^3$, $+2^4$

(5)+9, +29, +49, +69, +89

(6)+41, +43, +45, +47, +49

(7)*7, *6, *5, *4, *3

(8)*5/1, *4/2, *3/3, *2/4, *1/5

(9)*1+1, *2+2, *3+3, *4+4, *6+6

(10)Sum of the previous two numbers

(11)$+3^2$, +2, $+3^2$, +2, $+3^2$

(12)*0.1, *0.2, *0.3, *0.4, *0.5

(13)*0.25, *0.5, *0.75, *1, *1.25

(14)*3+10, *3+11, *3+12, *4+13, *3+14

(15)+21, +42, +84, +168, +336

(16)*1+1^3, *2+2^3, *3+3^3, *4+4^3, *5+5^3

(17)-2.5 +5 -8.5 +13 -18.5
+2.5 +3.5 +4.5 +5.5

(18)÷2+4, ÷3+6, ÷4+8, ÷5+10, ÷6+12

(19)+31 +34 +40 +49 61
+3 +6 +9 +12

(20)+(1*2), +(2*3), +(3*4), +(4*5), +(5*6)

5. MISSING NUMBER SERIES

(1) 3, 9, ?, 180, 1080, 7560

(a)43

(b)36

(c)45

(d)32

(e) None of these

(2) 9, 17, 44, ?, 233, 449

(a)101

(b)100

(c)123

(d)108

(e) None of these

(3) 8, 4, 6, ?, 52.5, 236.25

(a)15

(b)12

(c)19

(d)11

(e) None of these

(4) 56, 79, ?, 155, 208, 271

(a)119

(b)111

(c)114

(d)112

(e) None of these

(5) 35, ?, 51, 62, 75, 90

(a)34

(b)42

(c)41

(d)49

(e) None of these

(6) 105, 128, 157, 188, 225, ?

(a)266

(b)245

(c)269

(d)261

(e) None of these

(7) 9, 53, 263, ?, 3143, 6281

(a)1091

(b)1056

(c)1024

(d)1049

(e) None of these

(8) ?, 147, 291, 487, 743, 1067

(a)49

(b)34

(c)47

(d)55

(e) None of these

(9) 10, 12, 18, ?, 50, 80

(a)31

(b)34

(c)36

(d)39

(e) None of these

(10) 82, 106, ?, 172, 214, 262

(a)136

(b)134

(c)131

(d)139

(e) None of these

(11) 302, 44, ?, 390, 736, 1126

(a)313

(b)367

(c)345

(d)346

(e) None of these

(12) 2, 7, 36, 175, ?, 2085

(a)691

(b)651

(c)696

(d)699

(e) None of these

(13) 136, 156, ?, 248, 316, 396

(a)194

(b)178

(c)199

(d)189

(e) None of these

(14) 39, 58, 96, ?, 229, 324

(a)152

(b)151

(c)153

(d)159

(e) None of these

(15) 1245, 2576, 2407, 5782, 5493, ?

(a)17734

(b)97729

(c)17721

(d)12352

(e) None of these

(16) 135135, 10395, ?, 105, 15, 3

(a)945

(b)954

(c)956

(d)912

(e) None of these

(17) 4.5, 15, 23.5, 30, ?, 37

(a)43.5

(b)34.5

(c)33.5

(d)39.5

(e) None of these

(18) 4, 10, ?, 40, 64, 94

(a)11

(b)19

(c)23

(d)22

(e) None of these

(19) 505, 454, 413, ?, 361, 350

(a)389

(b)382

(c)381

(d)399

(e) None of these

(20) 665, 657, ?, 635, 621, 605

(a)647

(b)654

(c)687

(d)631

(e) None of these

Answers:

(1)b

(2)d

(3)a

(4)d

(5)b

(6)a

(7)d

(8)c

(9)e

(10)a

(11)d

(12)c

(13)a

(14)c

(15)d

(16)a

(17)b

(18)d

(19)b

(20)a

Solutions:

(1)*3, *4, *5, *6, *7

(2)$+2^3$, $+3^3$, $+4^3$, $+5^3$, $+6^3$

(3)*0.5, *1.5, *2.5, *3.5, *4.5

(4)+23, +33, +43, +53, +63

(5)+7, +9, +11, +13, +15

(6)+23, +29, +31, +37, +41

(7)*6-1, *5-2, *4-3, *3-4, *2-5

(8)$+10^2$, $+12^2$, $+14^2$, $+16^2$, $+18^2$

(9)+1*2, +2*3, +3*4, +4*5, +5*6

(10)+6*4, +6*5, +6*6, +6*7, +6*8

(11)Sum of the previous two numbers

(12)*7-7, *6-6, *5-5, *4-4, *3-3

(13)+20 +38 +54 +68 +80
+18 +16 +14 +12

(14)+19, +38, +57, +76, +95

(15)+11^3, -13^2, +15^3, -17^2, +19^3

(16)÷13, ÷11, ÷9, ÷7, ÷5

(17)+10.5, +8.5, +6.5, +4.5, +2.5

(18)+3*2, +3*4, +3*6, +3*8, +3*10

(19)-51, -41, -31, -21, -11

(20)-4*2, -5*2, -6*2, -7*2, -8*2

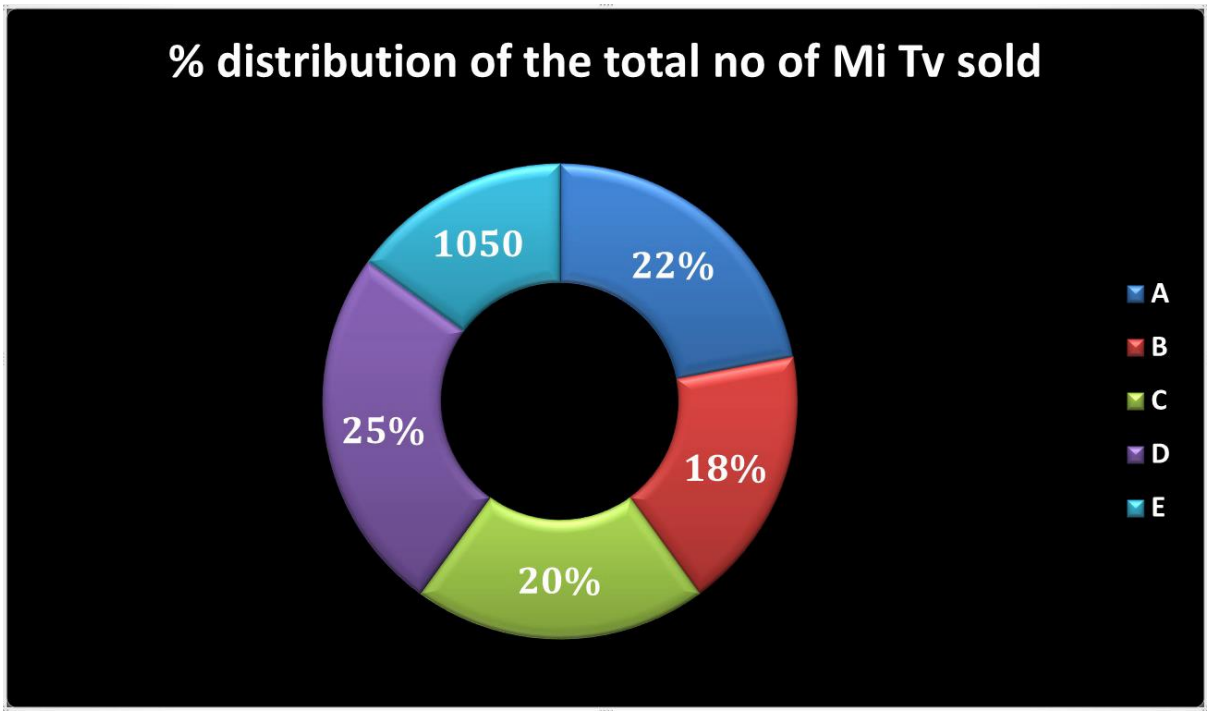
6. DATA INTERPRETATION

SET 1. The donut graph shows the data about the percentage distribution of the total number of Mi Tv sold & table graph shows the difference between the number of Mi Tv & Tcl Tv sold by five different shops. Read the data and answer the following questions.

Note : The number of Mi Tv sold is more than the number of Tcl Tv sold by each shop.

□□□□ □□□□□ □□□□ □□ □□□□ □□□□ □□ □□□ □□□□□□ □□ □□□□□□□ □□□□□ □□ □□□□ □□□ □□□□ □□□□□□ □□ □□ □□□□ □□□□□ □□□□ □□□-□□□ □□□□□□□ □□□□□□ □□□□ □□ □□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□ □□ □□□□ □□□□□□ □□□ □□□□ □□□□□ □□ □□□□□□□□□□ □□□□□□□□ □□ □□□□□ □□□□

□□□: □□□□ □□ Mi Tv □□ □□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ Tcl Tv □□ □□□□□□ □□ □□□□ □□□



Shop	Difference between no of Mi Tv sold & Tcl Tv sold
A	320
B	110
C	400
D	210
E	100

1. Find the difference between average number of Mi tv sold by shop B, C & D and average number of Tcl tv sold by shop B, C, D & E.
   □□□□□ □□, □□ □□ □□ □□□□□□ □□□□ □□ □□□□ □□□□ □□ □□□ □□□□□□ □□ □□□□□ □□, □□, □□ □□ □ □□□□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□ □□□□□□ □□ □□□ □□ □□□□ □□□□□ □□□□□
   (A)200
   (B)250
   (C)420
   (D)310
   (E)None of these

2. If 33.33% & 20% of the number of Mi Tv & Tcl Tv sold by shop B is sold in Flipkart big billion day sale and rest are sold in Amazon great Indian festival sale and if 42.84% & 40% of the Number of Mi Tv & Tcl Tv sold in Amazon great Indian festival sale is 4k qled tv & rest are 4k oled tv, then the number of 4k oled Mi tv sold is what percent of the number of 4k qled Mi tv sold?
   □□□ □□□□□ B □□□□□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□□□□ □□ 33.33% □□ 20% □□□□□□□□□□ □□□ □□□□□□ □□ □□□ □□□ □□□□ □□□□ □□ □□ □□□□ □□□□□□□ □□□□□ □□□□□□ □□□□□□□□ □□□ □□□ □□□□ □□□□ □□ □□ □□□ □□□□□□□ □□□□□ □□□□□□ □□□□□□□□ □□□ □□□ □□□□ □□□□ □□□□ □□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□□□□ □□ 42.84% □□ 40% □□□□□ □□□□□□ □□□□□□□□ □□□ 4k □□□□□□□□ □□□□ □□ □□ □□□□ 4k □□□□ □□□□ □□□, □□ 4k □□□□ □□□□ □□□□ □□ □□□□□□ 4k □□□□□□□□ □□□□ □□□□ □□ □□□□□□ □□ □□□□□ □□□□□□□□ □□?
   (A)100%
   (B)133.33%
   (C)122.22%

(D)125%
(E)None of these

3. Find the ratio between the total number of Tv sold by shop C and the total number of Tv sold by shop E.
□□□□□ C □□□□□□ □□□□ □□ □□□□ □□ □□□ □□□□□□ □□ □□□□□ E □□□□□□ □□□□ □□ □□□□ □□ □□□ □□□□□□ □□ □□□ □□ □□□□□□ □□□□□ □□□□□

(A)6:5
(B)3:4
(C)4:5
(D)6:7
(E)None of these

4. If the number of Tcl Tv sold by shop A & shop D is equal to '3a+2' & '4b', then find the value of (a+b)/(a-b).
□□□ □□□□□ A □□ □□□□□ D □□□□□□ □□□□ □□ Tcl Tv □□ □□□□□□ '3a+2' □□ '4b' □□ □□□□□ □□, □□ (a+b)/(a-b) □□ □□□ □□□□□ □□□□□

(A)110/3
(B)111/2
(C)112/5
(D)113/3
(E)None of these

5. Total number of Tv sold by shop A is how much more or less than the number of Mi Tv sold by shop D & E together?
□□□□□ A □□□□□□ □□□□ □□ □□□□ □□ □□□ □□□□□□ □□□□□ D □□ E □□□□□□ □□□□ □□ Mi □□□□ □□ □□□□□□ □□ □□□□□ □□□□ □□ □□ □□?

(A)60 more
(B)40 less
(C)50 more
(D)30 less
(E)None of these

Solutions

From graph we can see that 15% = 1050(given) so 100%(total no of Mi Tv sold by all five shop) = (1050)*100/15 = 7,000. So we get all the values of mi tv

Shop	No of Mi Tv sold
A	1540
B	1260
C	1400
D	1750
E	1050

Now the difference is given in table so for shop A : Mi Tv - Tcl Tv = 320 so Tcl Tv = 1540-320 = 1,220. So we get

Shop	No of Mi Tv sold	No of Tcl Tv sold	Total
A	1540	1220	**2760**
B	1260	1150	**2410**
C	1400	1000	**2400**
D	1750	1540	**3290**
E	1050	950	**2000**
	7000	**5860**	**12860**

1. (D)310
2. (B)133.33% {33.33% & 20% of the number of Mi Tv & Tcl Tv sold by shop B is sold in Flipkart big billion day sale and rest are sold in Amazon great Indian festival sale so number of Mi tv sold in Amazon great Indian festival sale = ⅔ of 1260 = 840 & number of Tcl tv sold in Amazon great Indian festival sale = ⅗ of 1150 = 920. And if 42.84% & 40% of the Number of Mi Tv & Tcl Tv sold in Amazon great Indian festival sale is 4k qled tv & rest are 4k oled tv, so number of 4k oled Mi tv sold = 4/7 of 840 = 480 & the number of 4k oled Mi tv sold = 3/7 of 840 = 360. Required answer = (480)/(360)*100 = 133.33%}
3. (A)6:5
4. (D)113/3 {the number of Tcl Tv sold by shop A & shop D is equal to '3a+2' & '4b' so 3a+2 = 1220 & 3a = 1218 & a = 406 and 4b = 1540 & b = 385. Required answer = (406+385)/(406-385) = 791/21 = 113/3}
5. (B)40 less

SET 2. The table chart shows the missing data about the number of items sold in myntra sale on five different days. Read the data and answer the following questions.

□□□□□□ □□□□□ □□□□ □□□-□□□ □□□□□ □□□ □□□□□□□ □□□□□□ □□□ □□□□ □□ □□□□□□□ □□ □□□□□□ □□ □□□□ □□□ □□□□□□ □□□□ □□□□□□ □□□ □□□□ □□□□□ □□ □□□□□□□□□□ □□□□□□□□ □□ □□□□□ □□□□

Day	No of laptops sold	No of mobile sold	No of Tv sold
Monday	225	-	270
Tuesday	-	300	-
Wednesday	-	-	245
Thursday	120	100	-
Friday	-	90	115

1. If the number of mobile sold on Monday is 6.66% less than the number of mobile sold on Tuesday, then the number of laptop sold on Monday is what percent of the number of mobile sold on Monday?
   □□□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ 6.66% □□ □□, □□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□ □□□□□□□ □□?
   (A)72.84%
   (B)54.22%
   (C)67.32%
   (D)80.35%
   (E)None of these

2. If the number of laptops sold on Tuesday & Wednesday is 42.22% more & 20% less than the number of laptops sold on Monday, then find the average number of laptops sold on Tuesday & Wednesday.
   □□□ □□□□□□□ □□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ 42.22% □□□□ □□ 20% □□ □□, □□ □□□□□□□ □□ □□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□ □□□ □□□□□□
   (A)150

(B)300
(C)200
(D)250
(E)None of these

3. Find the difference between the number of mobile sold on Thursday & Friday together and the number of Tv sold on Monday.
□□□□□□□ □□ □□□□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□ □□ □□□□ □□□□□ □□□□□

(A)75
(B)80
(C)60
(D)55
(E)None of these

4. Find the ratio between the number of Tv sold on Wednesday and the number of Tv sold on Friday.
□□□□□□ □□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□□□ □□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□ □□ □□□□□□ □□□□□ □□□□□

(A)49:23
(B)55:16
(C)62:19
(D)43:14
(E)None of these

5. Find 122.22% of 81.81% of the Number of mobile sold on Friday.
□□□□□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ 81.81% □□ 122.22% □□ □□□ □□□□□□

(A)50
(B)90
(C)80
(D)60
(E)None of these

Solutions

1. (D)80.35% {the number of mobile sold on Monday is 6.66% less than the number of mobile sold on Tuesday so number of mobile sold on Monday = 14/15 of 300 = 280. Required answer = (225)/(280)*100 = 80.35%}
2. (D)250 {number of laptops sold on Tuesday & Wednesday is 42.22% more & 20% less than the number of laptops sold on Monday so number of laptops sold on Tuesday = 42.22% = 20%+22.22% = ⅕ + 2/9 = 9+10/45 = 19/45 so 64/45 of 225 = 320 & number of laptops sold on Wednesday = ⅘ of 225 = 180. Required answer = (320+180)/2 = 250}
3. (B)80
4. (A)49:23
5. (B)90

SET 3. Directions : Study the following passage carefully and answer the questions given below.

The data is about number of five different types of bottles sold by Berkshire Heathway and Stanley. Total number of bottles sold by Berkshire Heathway and Stanley together is 10700. Total number of Steel bottles sold by Berkshire Heathway and Stanley is 900 more than Angled bottles sold by Berkshire Heathway and Stanley both. Number of Glass bottles sold by Berkshire Heathway is 450 less than number of Champagne bottles sold by Berkshire Heathway which is 1000. Sum of number of Steel and Aluminium bottles sold by Berkshire Heathway is 3000. Ratio of number of Aluminium bottles sold by Berkshire Heathway to number of Angled bottles sold by Stanley is 3: 2 respectively. Total number of Aluminium bottles sold by Berkshire Heathway and Stanley both is 2300. Ratio of number of Champagne bottles to number of Steel bottles sold by Berkshire Heathway is 5:9. Number of Angled bottles sold by Berkshire Heathway is 600 more than number of Champagne bottles sold by Stanley. Total number of bottles sold by Stanley is 1400 less than total number of bottles sold by Berkshire Heathway.

□□□□□□□: □□□□□□□□□□ □□□ □□ □□□□□ □□ □□□□□□ □□□□ □□ □□□□ □□□ □□ □□□□□□□□ □□ □□□□□ □□□□

□□□□ □□□□□□□□ □□□□□ □□ □□□□□□□ □□□□□□ □□□□ □□ □□□□ □□□-□□□ □□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□ □□□ □□□ □□□□□□□□ □□□□□ □□ □□□□□□□ □□□□□□ □□ □□□ □□□□ □□ □□□□□□ □□ □□□ □□□□□□ 10700 □□□ □□□□□□□□ □□□□□ □□ □□□□□□□ □□□□□□ □□□□ □□ □□□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□□□□□□□ □□□□□ □□ □□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□ □□□□□□ □□ □□□□□ □□□ 900 □□□□ □□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ 450 □□ □□ □□ 1000 □□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□ □□ □□□□□□□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□ 3000 □□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□□□ □□□□□□ □□□□ □□ □□□□□□ □□□□□□ □□ □□□□□□ □□ □□□□□□ □□□□□□ 3: 2 □□□ □□□□□□□□ □□□□□ □□ □□□□□□□ □□□□□□ □□□□ □□ □□□□□□□□□□□□ □□ □□□□□□ □□ □□□ □□□□□□ 2300 □□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□□□ □□□□ □□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□□□ 5:9 □□□ □□□□□□□□ □□□□□ □□□□□□ □□□□

□□ □□□□□□ □□□□□□ □□ □□□□□□ □□□□□□□ □□□□□□ □□□□ □□ □□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ 600 □□□□ □□□ □□□□□□□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□ 1400 □□ □□□

1. The number of Angled bottle sold by Berkshire Heathway is what percent of the number of Steel bottle sold by Berkshire Heathway?
   □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□ □□□□□□ □□ □□□□□□ □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□ □□□□□□□□ □□?
   (A)46.32%
   (B)52.72%
   (C) 42.84%
   (D)83.33%
   (E)None of these

2. Find the ratio between the number of Angled bottle sold by Berkshire Heathway and the number of Glass bottle sold by Stanley.
   □□□□□□□□ □□□□□ □□□□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□□□□□ □□□□□□ □□□□ □□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□ □□ □□□□□□ □□□□□ □□□□□
   (A)17:4
   (B)10:3
   (C)13:7
   (D)14:5
   (E)None of these

3. Find the average number of Steel, Aluminium, Angled & Champagne bottles sold by Stanley.
   □□□□□□□ □□□□□□ □□□□ □□ □□□□□, □□□□□□□□□□□□, □□□□□□ □□ □□□□□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□ □□□ □□□□□□
   (A)1500
   (B)1050
   (C)1100
   (D)1250
   (E)None of these

4. Total number of Champagne bottles sold by both the companies is how much more or less than the total number of Steel bottles sold by both the companies?
□□□□□ □□□□□□□□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□□□□
□□□□□□□□ □□□□□□ □□□□ □□ □□□□□ □□ □□□□□□ □□ □□□ □□□□□□ □□ □□□□□ □□□□
□□ □□ □□?
(A)1800 more
(B)1100 less
(C)1500 more
(D)1300 less
(E)None of these

5. Find the difference between the number of Aluminium bottles sold by Stanley and number of Glass bottles sold by Berkshire Heathway.
□□□□□□□ □□□□□□ □□□□ □□ □□□□□□□□□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□□□□□□
□□□□□ □□□□□□ □□□□ □□ □□□□ □□ □□□□□□ □□ □□□□□□ □□ □□□ □□□□ □□□□□
□□□□□

(A)650
(B)550
(C)400
(D)450
(E)None of these

Solutions

	Berkshire Heathway	Stanley	Total
Steel bottles	1800	1400	**3200**
Aluminium bottles	1200	1100	**2300**
Angled bottles	1500	800	**2300**

Champagne bottles	1000	900	**1900**
Glass bottles	550	450	**1000**
	6050	**4650**	**10700**

1. (D)83.33%
2. (B)10:3
3. (B)1050
4. (D)1300 less
5. (B)550