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Quiz Date: 3rd October 2020

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Directions (1-5) : What approximate value should come in the place of the question mark
'?' in the following questions ? (You are not expected to calculate the exact value.)
01. \sqrt{15.9987} \times 1598.998 \div 3198.0125 + \sqrt{2208.997} = ?^2
(a) 1526
(b) 17
(c) 7
(d) 11
(e) 8
Q2. 37.992 \times \sqrt{143.956} \div (2.001)^7 \times \sqrt{4095.998} \div 56.998 =?
(a) 12
(b) 8
(c) 10
(d) 11
(e) 4
03.34.001 \times 17.997 \times 23.995 \div 16.999 =?
(a) 864
(b) 756
(c) 625
(d) 522
(e) 976
Q4. 0.2% of 329.995 +1% of 169.995-0.4% of 419.995=?
(a) 0.1
(b) 0.4
(c) 1.8
(d) 0.68
(e) 1.3
Q5. 16.66% of 108.123+7.69% of 168.998-5.88% of 173.4=?
(a) 28.4
(b) 20.8
(c) 37.2
(d) 26.6
(e) 32.2
Q6. The perimeter of square is 3 times the perimeter of rectangle whose length and breadth
are 12cm and 8 cm respectively. Find out the total surface area of sphere whose diameter is
2 times of the side of square.
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- (a) $3000\pi \ cm^2$
- (b) $2300\pi \ cm^2$
- (c) $3300\pi \ cm^2$

(d) 3600π *cm*² (e) 4300π *cm*²

Q7. A container contains two liquid A and B in the ratio 3:5 when 40 liters of mixture are replaced with B, the ratio of A:B becomes 18:35. find out the initial quantity of mixture.

- (a) 424 liters
- (b) 444 liters
- (c) 520 liters
- (d) 384 liters
- (e) 414 liters

Q8. When the annual rate of compound interest increases from 7.5% to 12.5%, then a man's yearly interest increase by Rs 1750. Find out the simple interest on same principal at 5% per annum for 3 years?

- (a) Rs. 4850
- (b) Rs. 5250
- (c) Rs. 4320
- (d) Rs. 6520
- (e) Rs. 5150



Q9. If A, B and C started a business in a partnership investing in the ratio of 3:5:7 respectively. At the end of the year, they earned total profit of Rs. 23550. which is 15% of the total investment. Find out the investment of B's share (approximately in Rs.)?

- (a) Rs. 53860
 (b) Rs. 51333
 (c) Rs. 51003
 (d) Rs. 53454
- (e) Rs. 52334

Q10. There are three number A, B and C. If A is three times more than B and 8 times of C. if average of A, B and C is Rs. 770, then find out the difference between 2nd largest number and smallest number.

- (a) 200
- (b) 420
- (c) 210
- (d) 1470

(e) 110

Directions (11-15): - Deepak, Dharam and Shivam invested in partnership for one year. Ratio of investment of Deepak, Dharam and Shivam for first 6 months, next four month and for remaining time is 3:2:3, 2:5:3 and 4:3:3 respectively. Amount invested by Deepak in first 6 months, Dharam in next four month and by Shivam in remaining time is Rs.1500, Rs. 2000 and Rs. 900 respectively. Total difference between profit share of Dharam and Shivam together and Deepak and Dharam together is Rs. 450.

Q11. Total investment of Deepak is approximately what percent of total investment of Shivam in one year?

(a) 96%

(b) 95%

(c) 97%

(d) 92%

(e) 99%

Q12. What is profit share of Dharam after one year?

(a) Rs.7110

(b) Rs. 6570

(c) Rs. 7020

(d) Rs. 6560

(e) Rs. 7220

Q13. What is the ratio of investment made by Deepak for 4 months to investment made by Shivam for 2 months?

(a) 5:7

(b) 6:7

(c) 4:5

(d) 8:9

(e) 3:2

Q14. What is the difference between investment made by Dharam for 6 and 4 months together and total investment made by Shivam?

- (a) Rs. 900
- (b) Rs. 600
- (c) Rs. 800
- (d) Rs. 400
- (e) Rs. 500

Q15. Investment made by Deepak for 2 months is how much percent more or less than investment made by Shivam for 6 months?

(a) 20% more

(b) 25% less

- (c) 25% more
- (d) 20% less

(e) None of these.

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Solutions
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S1. Ans (c)
Sol. \sqrt{15.9987} \times 1598.998 \div 3198.0125 + \sqrt{2208.997}
    =4 \times \frac{1599}{3198} + 47
?^2 = 49
? = ±7
So, ?=7
S2. Ans (e)
Sol.
  37.992 \times \sqrt{143.956} \div 2.001^7 \times \sqrt{4095.998} \div 56.998
=38 \times 12 \div 128 \times 64 \div 57
=38 \times \frac{12}{128} \times \frac{64}{57}
=4
S3. Ans (a)
Sol.
     34.001×17.997×23.995÷16.999
  =34 \times 18 \times 24 \div 17
  =\frac{34\times18\times24}{17}
  =864
S4. Ans (d)
Sol. 0.2% of 329.995 +1% of 169.995-0.4% of 419.995
 = \frac{2}{1000} \times 330 + \frac{1}{100} \times 170 - \frac{4}{1000} \times 420
  = 0.66 + 1.70 - 1.68
  =0.68
S5. Ans (b)
Sol. 16.66% of 108.123+7.69% of 168.998-5.88% of 173.4
  =\frac{1}{6} \times 108 + \frac{1}{13} \times 169 - \frac{1}{17} \times 173.4
    =20.8
S6. Ans (d)
Sol.
Let side of square =a cm
ATQ
4a = 3 \times (l+b)
4a=3 \times 2(12+8)
a=30 cm
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since diameter of sphere is 2 times the side of square so, radius of sphere (r) = side of square= 30 cm total surface area of sphere= $4\pi r^2$ = $3600\pi cm^2$

S7. Ans (a) Sol. The ratio of A and B in mixture =3:5After drawn out 40 liters of mixture their ratio must be same =3:5 Let the quantity of liquid A in the mixture = 3aAnd the quantity of liquid B in the mixture= 5a ATQ $\frac{3a}{5a+40} = \frac{18}{35}$ a=48 quantity of mixture after drawn out 40 liters of mixture=3a+5a=8a $=8 \times 48$ =384 liters So, initial quantity=384+40 =424 liters. S8 Ans (b) Sol. for 1st year simple interest and compound interest will be same. So, $1750 = \frac{p \times (12.5 - 7.5) \times 1}{p \times (12.5 - 7.5) \times 1}$ 100 P=Rs.35000 Simple interest = $\frac{35000 \times 5 \times 3}{5}$ 100 =Rs.5250 BILINGUAL IRPS RRR PO/ Starts June 29. 12:30 PM to 3:30 PM

S9. Ans (e) Sol.

Let the share of A, B and C are 3a, 5a and 7a respectively. The ratio of profit divided into A, B and C in the ratio = $3a \times 12$: $5a \times 12$: $7a \times 12$

=3a:5a:7a

Let total investment =P ATQ

 $p \times \frac{15}{100} = 23550$ P=Rs.157000 So, share of B = $\frac{5}{3+5+7} \times 157000$ =Rs.52333.33≈ Rs. 52334 S10. Ans (c) Sol. A is three times more than B So, ratio of A and B=4:1 And ratio of A and C=8:1 So, A:B:C =8:2:1 Let A=8a, B=2a and C=a Average of A,B and C = $\frac{8a+2a+a}{3}$ = 770 a=210 second largest number =2a and smallest number =a difference between 2nd largest number and smallest number=2a-a =a =210 Sol (11-15): - Investment of Deepak for first 6 months = Rs. 1500 Investment of Dharam for first 6 months = $1500 \times \frac{2}{2} = Rs$. 1000 Investment of Shivam for first 6 months = $1500 \times \frac{3}{2} = Rs. 1500$ Investment of Dharam for next 4 months = Rs. 2000 Investment of Deepak for next 4 months = $2000 \times \frac{2}{2}$ = Rs. 800 Investment of Shivam for next 4 months = $2000 \times \frac{3}{2}$ = Rs. 1200 Investment of Shivam for remaining time = Rs. 900 Investment of Deepak for remaining time = $900 \times \frac{4}{2}$ = Rs. 1200 Investment of Dharam for remaining time =900 $\times \frac{3}{2}$ = Rs. 900 Profit share of Deepak, Dharam and Shivam $(1500 \times 6 + 800 \times 4 + 1200 \times 2)$: $(1000 \times 6 + 2000 \times 4 + 900 \times 2)$: $(1500 \times 6 + 1200 \times 2)$ $4 + 900 \times 2$ ⇒ 73: 79: 78 Let profit of Deepak, Dharam and Shivam are Rs.73x, Rs. 79x and Rs.79x respectively. ATO (79x + 78x - 79x - 73x) = 5x = Rs.450x = 90Profit share of Deepak = *Rs*. 6570 Profit share of Dharam = Rs. 7110 Profit share of Shivam = Rs.7020S11. Ans(c) Sol. Total investment of Deepak = (1500 + 800 + 1200) = Rs.3500

Total investment of Shivam = (1500 + 1200 + 900) = Rs.3600Required percentage = $\frac{3500}{3600} \times 100 \approx 97\%$

S12. Ans(a) Sol. profit of Dharam after one year = $79 \times 90 = Rs.7110$

S13. Ans(d) Sol. required ratio = 800: 900 = 8:9

S14. Ans(b) Sol. required difference = (1500 + 1200 + 900) - (1000 + 2000) = Rs. 600

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S15. Ans(d) Sol. Required percentage = $\frac{1500-1200}{1500} \times 100 = 20\%$ less