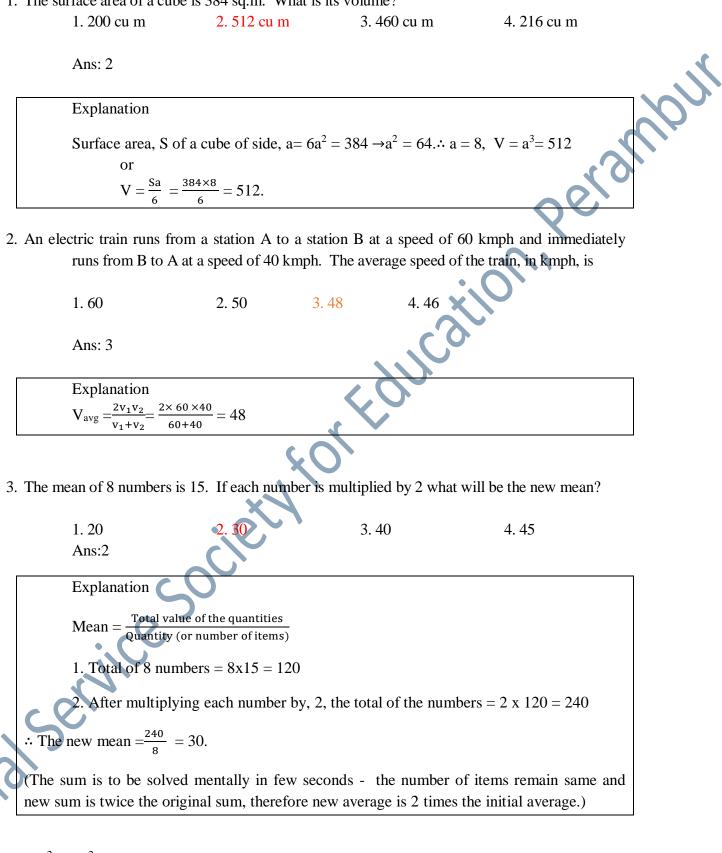
1. The surface area of a cube is 384 sq.m. What is its volume?



4. $283^2 - 243^2 = ?$

1.32327 2.33255 3.30140 4.21040 Ans: 4

	Explanation			
	Ans: (283+243) (283-243) = 526 ×40 =	= 21040	
. 63.45	561 + 8.17 + 0.6285=	= ?		
				~
	1.82.906	2. 72.2546	3. 70.0046	4. 74.5472
	Ans: 2			QU
. 0.007	722 ÷ 25 =?			\sim
	1. 0. 0028880	2. 0.002888	3. 0.0002888	4. 0.28880
	Ans: 3		Å	
	1 mo. 0			
	Explanation $\frac{72.2 \times 10^{-4}}{25} = 2.888$	$3 \times 10^{-4} = 0.000\ 2888$	~ Ym	
	25			
. 4.538	875 ÷ 1.25 =?			
	1. 0.3631 2 .	3.631 3 .	36.31 4.	363.1
	Ans: 2	, th		
	Explanation	a la		
	It is a tricky sum	- just at a glance of th	ne given options, one ca	an find the answer:
	Approximate valu	ie of the given sum \approx	4.5 / 1.25 ≈ 3.5	
. The f		became double after entry the basket wo		n hour the basket is full.
	1.15	2.25	3.29	4. 18
	Ans:3			
	= /MIN.J			
	1 11010			
	Explanation			
	Explanation	and 30 th minute full		
9.	Explanation 29 th minute half a		at percentage does the a	area increase?

Ans: 2

	Explanation
	Given $a \rightarrow 2a, A = (2a)^2 = 4a^2 = 4A$
	\therefore Increase in area = 3A
10.	The average of two numbers is 6. The cube of their sum is:
	1.1628 2. 1728 3. 1528 4. None of the above.
	Ans: 2
	Explanation
	Let the numbers be x and y. Their average is $\frac{x+y}{2} = 6$ \therefore $x+y = 12 \rightarrow (x+y)^3$
	$= 12^3 = 1728$
11.	If the price of coal increases 25%, by what percentage must the consumption be reduced to keep the expenditure same?1. 20%2.18.37%3.25%4. 22%
	Ans:1
	Explanation
	$\mathbf{x}_1\mathbf{y}_1 = \mathbf{x}_2\mathbf{y}_2$
	(where x is the price per unit quantity and y is the quantity that can be purchased)
	$x_1y_1 = 1.25x_1. y_2$
	$\therefore y_2 = \frac{1}{125} y_1 = 0.8 y_1, \therefore \text{ reduce} = 20\%$
	1.25
12.	If $(a+b) = 7$ and $ab=10$, find the value of $(a-b)$
12.	If $(a+b) = 7$ and $ab=10$, find the value of $(a-b)$ 1. 2 2.3 3. 5 4. 6
12.	If $(a+b) = 7$ and $ab=10$, find the value of $(a-b)$
12. 0	If $(a+b) = 7$ and $ab=10$, find the value of $(a-b)$ 1. 2 2.3 3. 5 4. 6

 $(a-b)^2 = (a+b)^2 - 4ab = 49-40 = 9 \rightarrow a - b = \pm 3$

13. The area of a triangle three sides as 3 cm, 4 cm and 5 cm will be-

1. 6 sq.cm **2.** 60 Sq.cm **3.** 30 Sq.cm. **4.** 36 Sq.cm.

Ans: 1

Explanation The given values pertains to a right angle triangle with sides 3, 4 and hypotenuse 5

 \therefore Area, $A = \frac{1}{2} \times 3 \times 4 = 6$.

One can use Heroin's formula also; but it will consume more time; Always be alert and immediately check if the given sides pertains to one of the Pythagorean triples. A list of first few Pythagorean Triples are given below.

List of the	first few Pythagorea	n Triples		
(3, 4, 5)	(5, 12, 13)	(7, 24, 25)	(8, 15, 17)	
(9, 40, 41)	(11, 60, 61)	(12, 35, 37)	(28, 45, 53)	
(15, 112, 113)	(16, 63, 65)	(17,144,145)	(19,180,181)	
(20, 21, 29)	(20,99,101)	(21,220,221)	(23,264,265)	
(24,143,145)	(25,312,313)	(27,364,365)	(28,45,53)	
(28,195,197)	(29,420,421)	(31,480,481)	(32,255,257)	
(33,56,65)	(33,544,545)	(35,612,613)	(36, 77,85)	
(36,323,325)	(37, 684,685)	Infinitely m	any more	

14. A man borrowed Rs.8000 at 10% per annum simple interest and immediately lent the whole sum at 10% per annum compound interest. What does he gain at the end of 2 years?

2.Rs.80

3.Rs.100

4. Rs.120.

Ans: 2

Rs.60

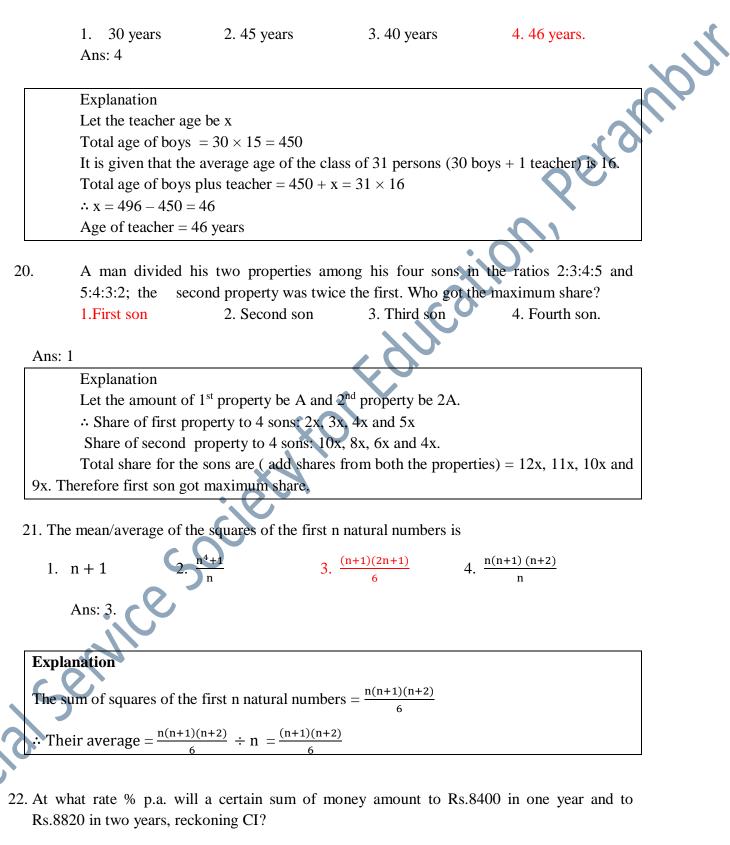
Explanation

The difference between CI and SI for 2 years =P $\left(\frac{R}{100}\right)^2 = 8000 \times \left(\frac{10}{100}\right)^2 = 80$ (Note this formula is applicable only for 2 yrs)

15. A spherical lead of radius 20 cm is melted and small lead balls of radius 2 cm are made. The total number of possible small lead balls is:

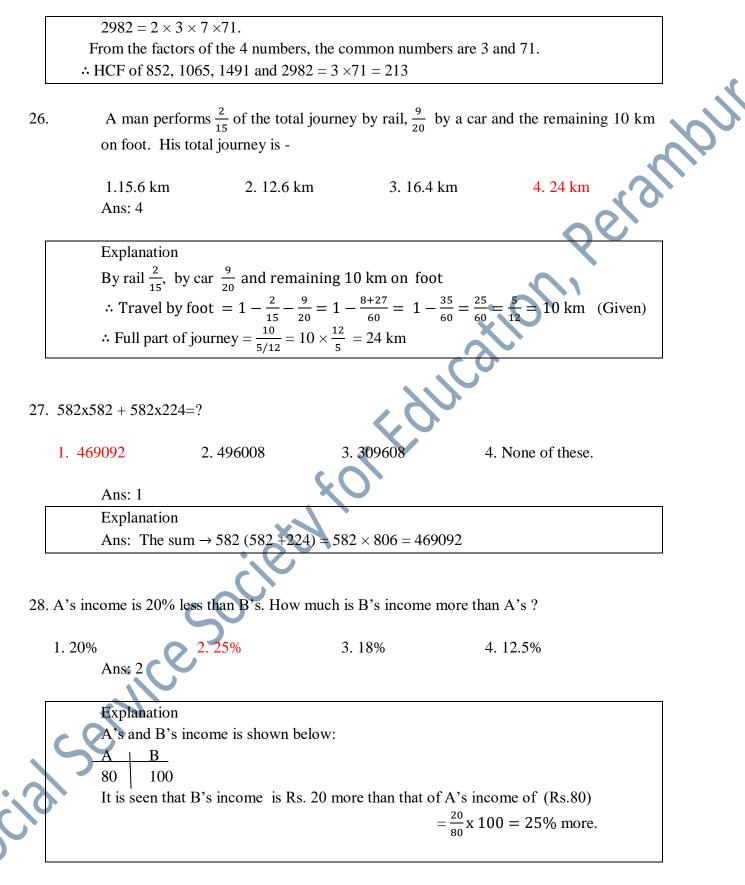
		1.8000	2. 800	3.80	4.1000
		Ans: 4			
]		R and r be that of sma balls made from big b	all ball and their volume all	e be V and v.
		$= rac{\text{volume of big sphe}}{\text{volume of small big}}$	$\frac{\text{re to be melted}}{\text{alls to be made}} \frac{v}{v} = \frac{R_1^3}{r^3}$		Re.
		$N = \left(\frac{20}{2}\right)^3 = 1000$		•. (
16	б.	Convert 90 kmph int	o m/s:	X	
		1. 18 m/s	2. 15 m/s 3. 22 m	m/s 4. 25 r	n/s.
		Ans: 4		$\langle O \rangle$	
		Explanation $90 \times \frac{5}{18} = 25 \text{ m/s.}$	c d		
17		(a^2+b^2) (a+b) (a-b) is	X		
		1. a^4+b^4	2. a ⁴ -b ⁴	3. a^3+b^3	4. $a^{3}-b^{3}$.
		Ans: 2			
		Explanation The sum $\rightarrow (a^2 + b^2)$	$(a^2 - b^2) = a^4 - b^4$		
18	3.	If a number, when div	vided by 4, is reduced	by 21, the number is:	
	5	1/18	2. 20	3. 28	4. 38
: 2		Ans: 3			
5001		Explanation Let the number be x $\frac{x}{4} = x - 21$ x = 4x - 84			
		$\therefore x = \frac{84}{3} = 28$			

19. The average age of 30 boys in a class is 15 years. If the teacher's age is included, the average increases by one. What is the teacher's age?



1. 8 2. 5 3. 6 4. None of the above.

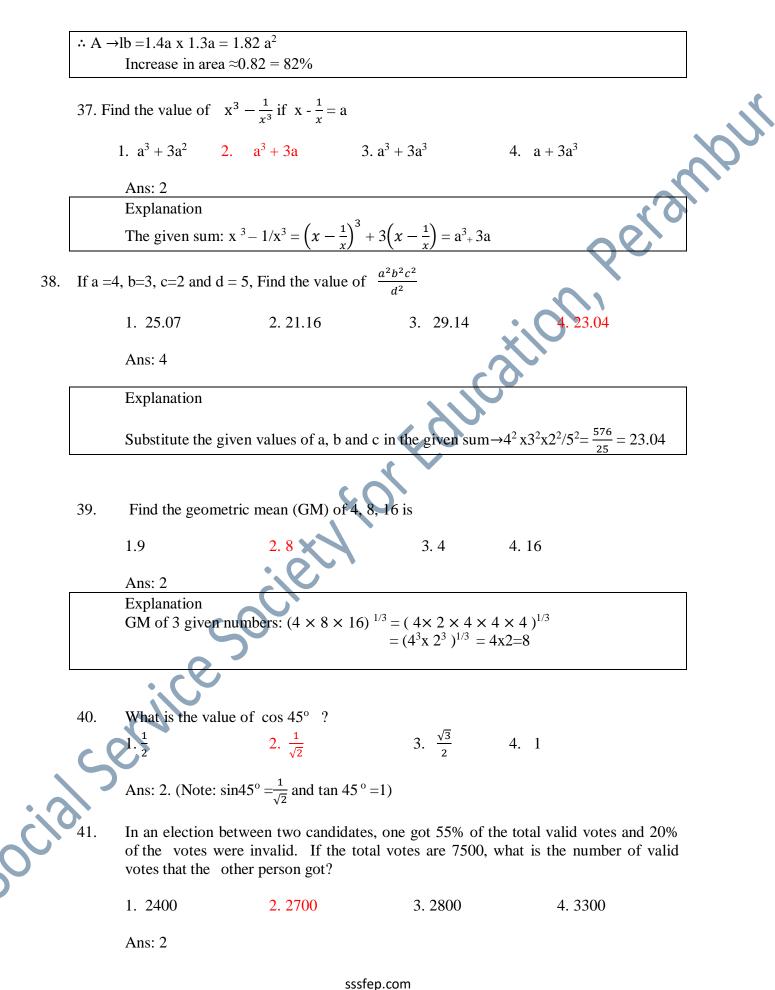
	Ans: 2				
	Explanation				
	i. At the f	irst year end: $A = P + S$	SI		
	8400 = 1	$P + \frac{PNR}{100} \dots (i)$			
		second year end: $A = I$	$P_1 + SI = 8400 + SI = 882$	20	
		ne second year =8820-			
		$8400 \times 1 \times \frac{R}{100}$			
	$\therefore R = 5$	100		.?	
(Ne		the end of 1 yr, both fo	or Sland CL is the sam	e	
(*					
23.	If $2x + 3y = 47$	and $11x = 7y$ then when	at is the value of y-x?	X	
·	2			5	
	1.4	2.6	3.7	4. 5	
			•		
	Ans:1		C		
	Explanation			0	7
	Given:				
	$2x+3y=47\ldots$. ,			
	$x = 7y / 11 \dots$	(2) $(11x=7 \text{ is the})$			
	Callest Handes Error	(0) · F (1)	2 7Y 1 1	14v	
	Substitute Eqn.	.(2) in Eqn.(1) →	$2 \times \frac{7y}{11} + 3y = 47$, i	$e_{-\frac{1}{11}} + 3y = 47$	
				11	
		$\begin{array}{c} (2) \text{ in Eqn.(1)} \rightarrow \\ 117, 47y = 517 \rightarrow \end{array}$		11	
24. Wh	$\therefore 14y + 33y = 5$	$17, 47y = 517 \rightarrow \qquad \qquad$		11	
24. Wh		$17, 47y = 517 \rightarrow \qquad \qquad$		11	
24. Wh	$\therefore 14y + 33y = 5$	$17, 47y = 517 \rightarrow \qquad \qquad$		11	
24. Wh	$\therefore 14y + 33y = 5$ that is the LCM of 25	$17, 47y = 517 \rightarrow \qquad \qquad$	$y = 11$ and $x = \frac{7y}{11} =$	$= 7.$ $\therefore y - x = 11 - 7 = 4$	
24. Wh	$\therefore 14y + 33y = 5$ hat is the LCM of 2: 1. 3800	$17, 47y = 517 \rightarrow \qquad \qquad$	$y = 11$ and $x = \frac{7y}{11} =$	$= 7.$ $\therefore y - x = 11 - 7 = 4$	
24. Wh	$\therefore 14y + 33y = 5$ hat is the LCM of 23 $1. 3800$ Ans: 2 Explanation	$17, 47y = 517 \rightarrow \qquad \qquad$	$y = 11$ and $x = \frac{7y}{11} = 3.4400$	$= 7.$ $\therefore y - x = 11 - 7 = 4$	
24. Wh	<pre>∴14y +33y = 5</pre> <pre>nat is the LCM of 2: 1. 3800 Ans: 2 Explanation Given numbers </pre>	$47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400	$= 7.$ $\therefore y - x = 11 - 7 = 4$	
24. Wh	 ∴14y +33y = 5 aat is the LCM of 2. 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors 	$47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400	$= 7.$ $\therefore y - x = 11 - 7 = 4$	
24. Wh	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$	$47y = 517 \rightarrow $ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400	= 7y - x = 11 - 7 = 4 4. None of these.	
24. Wh	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$	17, $47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3 , 5×	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400	= 7y - x = 11 - 7 = 4 4. None of these.	
	$\therefore 14y + 33y = 5$ hat is the LCM of 25 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree	17, $47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200 eatest number which di	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491	and 2982 exactly?	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 2: 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193	$47y = 517 \rightarrow $ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400	= 7y - x = 11 - 7 = 4 4. None of these.	
	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gre 1. 193 s:4	17, $47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200 eatest number which di	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491	and 2982 exactly?	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193 s:4 Explanation	$(17, 47y = 517 \rightarrow)$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200 eatest number which di 2. 183	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, avides 852, 1065, 1491 3. 223	= 7 y - x = 11 - 7 = 4 4. None of these. and 2982 exactly? 4. 213	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193 s:4 Explanation To find the gree	17, $47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5× 5 x 2x3 x 7 x 4 =4200 eatest number which di 2. 183 eatest number which di	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491 3. 223 vides 852, 1065, 1491	= 7 y - x = 11 - 7 = 4 4. None of these. and 2982 exactly? 4. 213 and 2982 exactly,	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193 s:4 Explanation To find the gree find the HCF of	17, $47y = 517 \rightarrow$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5× 5 x 2x3 x 7 x 4 =4200 eatest number which di 2. 183 eatest number which di	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491 3. 223 vides 852, 1065, 1491	= 7 y - x = 11 - 7 = 4 4. None of these. and 2982 exactly? 4. 213 and 2982 exactly,	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 2: 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193 s:4 Explanation To find the gree find the HCF of 852 = 2 × 2 × 3 >	$(17, 47y = 517 \rightarrow)$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200 eatest number which di 2. 183 eatest number which di of these numbers. These ×71	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491 3. 223 vides 852, 1065, 1491	= 7 y - x = 11 - 7 = 4 4. None of these. and 2982 exactly? 4. 213 and 2982 exactly,	
25.	$\therefore 14y + 33y = 5$ hat is the LCM of 23 1. 3800 Ans: 2 Explanation Given numbers i.e., the factors $\therefore LCM = 5 \times 5$ What is the gree 1. 193 s:4 Explanation To find the gree find the HCF of	$(17, 47y = 517 \rightarrow)$ 5, 30, 35 and 40? 2.4200 s are 25, 30, 35, and 40 s are: 5×5, 5×2x3, 5×7 5 x 2x3 x 7 x 4 =4200 eatest number which di 2. 183 eatest number which di of these numbers. Thes ×71 71	$y = 11 \text{ and } x = \frac{7y}{11} =$ 3.4400 7, 5×2x4, wides 852, 1065, 1491 3. 223 vides 852, 1065, 1491	= 7 y - x = 11 - 7 = 4 4. None of these. and 2982 exactly? 4. 213 and 2982 exactly,	



29. The number of persons travelling by first and second class of a train are in the ratio of 1:40 and the ratio of first and second class fares is 3:1. If the total fare collected is Rs.1720, total first class fare collected is

Ans: 1				
	r of passengers: I:II cla			
	and second class fares =3 amount = $3 \times 1:1 \times 40=3:$.
	nt is $3x + 40x = 1720 \rightarrow$			
		ssengers = Rs. $40x3 = 1$	Rs. 120.	~~~~
		_		00
20 200	1	1 05 111 (
	-	d among 85 children (s 5 mangoes. The numb	· · · · · · · · · · · · · · · · · · ·	s) so that each
boy gets 4 man	goes and each gin gets	s 5 mangoes. The nume	ber of girls is	
1.40	2.45	3.30	4.5	5
Ans: 1				
Explanat	tion		<u> </u>	
Let x be	number of boys and y	y be the number of gir	ls.	
		v = 380	(1)	
Total bo	by s and girls: $x + y =$	85	(2)	
Eqn.(2) :	$x 4 - Eqn.(1) \rightarrow y = 40$) and $\therefore x = 45$ and $y =$	40.	
		SO.		
21 W/ 14 C 1	1 4 1 611 1 6 11			1 ((11 1
-		with water is 15 kg. If is the weight of empty	-	ucket filled
	valer is 12.5 kg, what i	is the weight of empty	bucket?	
1. 10 kg	2.9 kg	3. 11.5	ikg 4.	12 kg
Ans: 1			6	8
	5			
	ation			
Explan	bucket weight be x and	d full quantity of water		
Let the			$m_{0} = m_{1} + m_{2} = 15$	(1)
Let the	en that the weight of l	bucket with full of wate	as: x + y - 13	
Let the It is giv	en that the weight of l o given that forhalf fil		x + $\frac{1}{2}y = 12$.	5(2)
Let the It is giv It is also	o given that forhalf fil	led bucket weight as:	-	5(2)
Let the It is giv It is also 2 x Eq.	_	led bucket weight as:	-	5(2)
Let the It is giv It is also 2 x Eq.	o given that forhalf fil (2) $\rightarrow 2x + y = 25 \dots$	led bucket weight as:	-	5(2)
Let the It is giv It is also 2 x Eq.	o given that forhalf fil (2) $\rightarrow 2x + y = 25 \dots$	led bucket weight as:	-	5(2)
Let the It is giv It is also 2 x Eq. Eq. (3)	o given that forhalf fil (2) $\rightarrow 2x + y = 25 \dots$ - Eq. (1) $\rightarrow x = 10$. Or	led bucket weight as:	$x + \frac{1}{2}y = 12.$	5(2)

	1. 1.1.	2. 0.11	3. 0.21	4.	0.101		
	Ans: 2]	
	Explanation	$m \rightarrow (0.6 \pm 0.5)$	$0.6 - 0.5$) = $1.1 \times$	0.1 - 0.11			
		····· / (0.0 + 0.3)($0.0 - 0.3 - 1.1 \times$	0.1 - 0.11			
33.	If one sevent	th of a number exc	ceeding its eleventh	part by 100	, then the numbe	er is	
	1. 1900 Ans: 2	2.1925	3.70	0	4.725	52	
	Explanation					\mathbf{O}	
	Given condit	tion: $\frac{x}{7} - \frac{x}{11} = 100$)		N N		
	11x - 7x = 7	/ 11					
	4x = 7700						
	∴ x = 1925				\mathbf{O}		
34.	[(0.6) ⁴ -(0.5) ⁴	⁴]/[(0.6) ² +(0.5) ²] i	s equal to	, jco			
	1. 1.1	2. 0.11	3. 0.011	4	11		
	Ans: 2	2. 0.11	51 01011				
	Explanation						
	Given sum is of the form: $\frac{\dot{a}^4 - b^4}{a^2 + b^2} = a^2 - b^2$ (where $a = 0.6, b = 0.5$)						
	1^2 1^2 0	$a^2 + b^2 = 0.36 - 0.5^2 = 0.5^2 =$	$a_{2}^{2} = a_{1}^{2} + b_{1}^{2}$ (where a_{2}^{2}	- 0.0, 0 - 0.	5)		
	$\therefore a^2 - b^2 = 0.$	$\frac{10^{-1}-0.5^{-1}}{10^{-1}}=0.36-0.56$	0.25 = 0.11				
35.	Find x in the $130x-400 = 2$	following equation 2200	on-				
	1.20	2. 24	3.	18 4.	28		
	Ans:1						
	Explanation						
		x - 400 = 2200					
	i.e., $130x =$	$2200 + 400, \therefore x = 2$	2600/130, x = 20				
(e,						
36.		-	creased by 40% an	_	ectively. The are	ea of the	
8	result	ting rectangle exce	eeds the area of the	square by			
	1.45%	2. 82%	3. (55%	4. 70%		
	Ans: 2						
	Explanation						
		of the square be a.					
	Area, $A = a^2$. , .	\ \		
	Now side, a	is changed to 1.4 a	a and 1.3 a (now it	is a rectangle	e).		



Explanation

Given: Total votes (both valid and invalid votes) = 7500 Number of invalid votes = 20% of total votes polled = 1500 \therefore Valid votes = 7500-1500 = 6000 One gets 55% of valid votes and the other gets balance 45% = 45% × 6000 = 2700

42. The average age of the 32 students is 10 yrs, if the teacher's age is also included, the average age increases by one year. What is the age of the teacher? 1. 43 2. 38 3. 45 4. 37

Ans: 1

	Explanation
	Total age of 32 students of avg. age 10 years= 32×10
	Given: Average age of the class after adding teacher's $age = 33$.
	i.e., Total age of 32 students and one teacher = 33×11
	$\therefore \text{Teacher's age} = 33 \times 11 - 32 \times 10 = 43$
43.	The surface area of a cube is 216 m^2 . Find its volume.
чэ.	1. 205cu.m 2. 210 cu.m 3. 216 cu.m 4. 180cu.m
	XO
	Ans: 3
	Explanation
	For a cube of side a, surface area, $S = 6a^2$
	Given: S= 216
	$a^2 = 216/6 = 36$, $a = 6$. Volume, $V = a^3 = 6^3 = 216$
	or
	$V = \frac{s}{6} a = 216 \times \frac{6}{6} = 216$
44.	What is the volume of sphere when 'r' is radius?
	1. $4\pi r^3$ 2. $3/2\pi r^3$ 3. $3\pi r^3$ 4. $\frac{4}{3}\pi r^3$
l.	Ans: 4

45. Two trains approach each other at 35 kmph and 25 kmph from two places 360 km apart. When will they meet?
1. 4 hr 2. 5 hr 3. 6 hr 4. 7 hr

Ans: 3

2

Explanation Two trains are travelling in opposite directions. Assume they met after time, t hour Distance travelled by the 2 trains in time, t, i.e., approaching each other = 35t + 25t= 360 $\therefore 60t = 360 \therefore t = 6$ 46 The area of the rectangle ABCD is 108 cm and the ratio of two sides is AB : BC :: 3 :4; then the sides are 1.7 cm, 6 cm 2. 7.5cm, 8cm 3.8 cm, 9cm 4. 9cm Ans: 4 Explanation Let the sides of rectangle be 3x, 4x cm : Area, $A = lb = 12x^2 = 108$, $\therefore x^2 = 108/12 = 9$; $\therefore x = 3$: Sides are 9 and 12. Note: Since the sum involves simple multiplication, from the given options, substitute in the area formula and find the correct option. 47. Oranges were purchased at Rs.200 per hundred and sold at Rs.3 per orange. If the profit of Rs.2,000 was made how many oranges were purchased. 1.1000 3.2000 4. None of these Ans: 3 Explanation Let the number of oranges purchased be x. The profit is Rs. 2000. Given: Cost of each orange = 200/100 = Rs 2. Selling price of each orange = $R_{s,3}$. \therefore Profit = Re. 1 per orange. To earn a profit of Rs. 2000, number oranges to be purchased are $= 1 \ge 2000 = 2000$ Nos 48. Find the value of $x^3 + y^3 + 3xy$, if x+y=11.1 2. 0 3.2 4. 6 Ans: 1

