

 $\frac{1}{3\sqrt{3}} = ?$

Ans: 1

2. $\frac{6\sqrt{3}}{11}$

Explanation Denominators of the given fractions are $\sqrt{3}$, $2\sqrt{3}$ and $3\sqrt{3}$; their LCM is $\sqrt{3} \times 2 \times 3 = 6\sqrt{3}$) Given sum $\rightarrow \frac{1}{\sqrt{3}} + \frac{1}{2\sqrt{3}} + \frac{1}{3\sqrt{3}} = \frac{6+3+2}{6\sqrt{3}} = \frac{11}{6\sqrt{3}}$

3. $\frac{2\sqrt{3}}{11}$

4. $\frac{3\sqrt{3}}{11}$.

5. Which of the following numbers should be subtracted to 11065 to make it exactly divisible by 79?

	1.	11	2. 9	3. 5	4.	7	
	Aı	ns:3					
-		Explanation					~~~~
		Dividend =	11065				
		Divisor = 7	9				
		Number she	ould be subtracte	ed to 11065:			
	divide	11065 ÷79 ed	. The remainder	is to be subtrac	cted from divide	nd to get exactly to b	e
		Here quotie	ent is 140 and ren	mainder is 5. Hen	ce 5 is to be subtr	acted.	
_	6.	The H.C.F	of 13.6 and 1.7 i	S	Š,		
		1.0.87	2. 0.	17	3.1.7	4. 1.8	
		Ans: 3					
		Explanation	1				
		Multiply 13	3.6 and 1.7 by 10	$0 \rightarrow 136, 17 \rightarrow 82$	x17, 1x17;		
		\therefore HCF of 13	6 and 17 is 17 –	→ HCF of 13.6 and	$\frac{11.7}{10} = 1.7$		
			: (9				
	7. T	The H.C.F of	two numbers is	10 and their L.C.	M is 10,350. If	one of these numbers i	S
	2	30, find the c	other number.				
		1. 287 Ans: 3	2	2. 283	3. 450	4 328	
		Explanation	1				
	numł	For sums	of the given pa	attern, i,e,, the f	ormula relating	LCM, HCF and the 2	2
		HCF x LCN	A = Product of th	ne two numbers			
~0		\therefore The other	r number = $\frac{10 \times 10}{23}$	$\frac{1350}{0} = 450$			
5.	8.	Find the sm	nallest fraction n	umber among the	following fractio	ns: $\frac{3}{2}, \frac{5}{8}, \frac{6}{5}, \frac{8}{7}$	-
		3	- 6		- 5	, 8	
		$1.\frac{3}{2}$	2. $\frac{1}{5}$		$3.\frac{3}{8}$	$4.\frac{-}{7}$	

	Explanation				
	The decimal f	form of the given fra	actions $\frac{3}{2}, \frac{5}{8}, \frac{6}{5}, \frac{8}{7} \to 1.5, 0.$.625, 1.2, ≈1.14.	
	From these n	umbers, the smalles	st fraction is $\frac{5}{8} = 0.625$.		
10	$3\frac{1}{-1}\%$ of 128 -	- 9			
10.	$\frac{3}{8}$ $\frac{1}{32}$	2 25	3 1	4 50	
	Ans: 3	2. 23	5. 4	4. 50	
					50
	Explanation			0	
	The given sur	$m \to \frac{25}{8} \times \frac{1}{100} x \ 128 = \frac{4}{100} x$	$\frac{100}{100} = 4$	X	
				. 001	
11.	The perimeter	r of a triangle is 10	0 m and its sides area in	the ratio 1:2:2. The	area of
	triangle (inm ²) is		<u>}</u>	
	$1 \ 100 \sqrt{2}$	2 100 /15	2 100-	4 100 /7	
	Ans: 2	2.100715	5.10075	4.10077	
	1 1110. 2				
	Explanation				
	Let the sides of	of the triangle be x,	2x, 2x		
	Perimeter, P =	$=100 = 5x. \therefore x = 20$	\rightarrow The sides are 20,40 and	40.	
	Use Heron's f	formula to find the a	area:		
	$s = \frac{a+b+c}{2} = 5$				
	Area, A = \sqrt{s}	(s-a)(s-b)(s-b)(s-b)(s-b)(s-b)(s-b)(s-b)(s-b	c)		
	$=\sqrt{50 \times 30}$	$\times 10 \times 10 = \sqrt{150}$	$\overline{0000} = 100\sqrt{15}$		
9. The	sum of all the in	nterior angles of a p	pentagon is		
C 1.	360°	2. 450°	3. 540°	4. None	
	Ans:3				
Exp	lanation				
5 x 1	108° =540°.				
Note	e: Sum of interio	or and exterior angle	es for few polygons are sh	own below:	

Shapes	No. of Sides, n	*Each interior angle = Sum of interior angles No. of sides, n	Sum of interior angles	Sum of exterior angles (=360° for all polygons.)	Illustration
1. Equilateral triangle	3	60°	3 x 60° = 180°	3 x 120° = 360°	60° 60° 120°
2. Square	4	90°	4 x 90° = 360°	4 x 90° = 360°	a 90° 90°
3. Rectangle	4	90°	4 x 90° = 360°	4 x 90° = 360°	b 90° 190° a
4. Regular pentagon	5	108°	5 x 108° = 540°	5 x 72° = 360°	108° 72° a
5. Regular hexagon	6	120°	6 x 120° = 720°	6 x 60° = 360°	120° 60° a
6. Regular heptagon	7	128.57°	7 x 128.57° = 900°	7 x 51.43° = 360°	128.57° 51.43°
7. Regular octagon	8	135°	8 x 135° = 1080°	8 x 45° = 360°	135° a





The difference between two numbers is 9 and their sum is 19. What will be their product?

1. 70 4.176 2.187 3.151

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Ans:	1
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		Explanation
		Let the numbers be x, y.
		It is given that $x - y = 9$ and $x + y = 19 \rightarrow x = 14$; $y = 5$; $\therefore xy = 70$.
13	3.	<u>15.72X15.72-5.72X5.72</u> 15.72+5.72
		1.5 2.10 3.15 4.25
		Ans: 2
		Explanation
		The given sum is of the form: $\frac{a^2-b^2}{a+b} = a - b$ where $a = 15.72$ and $b = 5.72$.
		a - b = 15.72 - 5.72 = 10
	14.	$\sqrt{?} + \sqrt{625} = 40$
		1. 225 2. 125 4. 169
		Ans: 1
		Explanation
		Ans: Assume the unknown number as x.
		$\sqrt{\mathbf{x}} + 25 = 40$
		$\sqrt{\mathbf{x}} = 15$ \therefore $\mathbf{x} = 225$
15	. By sel	ling a vehicle for Rs.25,800, Mani makes a profit of 20%, his gain in terms of
	rupees	is
	5	1. Rs.4,300 2.Rs.3,800 3. Rs.4,650 4. Rs.3,600
		Ans: 1
		Explanation
0		Assume CP =100 and SP =120 and hence $profit = 20$.
つ		Profit for SP of Rs. 25800
		$\therefore \frac{20}{120} \times 25800 = 4300$

16. "A" can do a piece of work in 25 days and "B" can finish the same work in 20 days. They work together for 5 days and then A goes away. In how many days B will finish the balance work?

	1 10 days	2 11 days	3,20 days	4 33 1/3 days	
	1. 10 duys	2. 11 duys	5. 20 duys	1. 55 175 days	0
	Ans: 2				
	Explanation	1	1		
	A's one day worl	x part $=\frac{1}{25}$ and for B =	20		
	A and B's one da	y work part $=\frac{1}{25} + \frac{1}{20} =$	$=\frac{4+5}{100}=\frac{9}{100}$	00	
	Work done by A	and B together in 5da	$y_{s} = \frac{9}{100} \times 5 = \frac{45}{100}$	X	
	∴After 5 days of	joint working, the ba	lance work to be com	pleted = $\frac{55}{100}$	
	∴No. of days to c	complete the balance w	ork, by B =55/100÷ = 55 x 20/100 =	1/20 11 days	
17. A	150 meter long train c	rosses a tree in 5 second	nds. What is the speed	f of the train in	
	kilometer per hou	ur?		4 100 1 1	
	1. 80 kmph	2. 108 kmph	3. 100 kmph	4. 120 kmph	
	Ans:2				
	Explanation	. (]
	Assume the tree	as a point object, i.e., i	here is no length to cr	oss by the train.	
	Speed = distance	$time = \frac{150}{5} = 30 \text{ m/s}$	$= 30 \times \frac{18}{5}$ kmph = 1	08 kmph	
					_
18. Tł	he breadth of a rectang	gular hall is two-third	of its length. If the	area of the hall is $54m^2$,	
	1 3	2 6 3	5 A 2		
	Ans: 1	2.0 5			
	Explanation]
Le	e the sides of rectangle	be ℓ and, $\frac{2}{3}\ell$. \therefore Area,	$A = \frac{2}{3} x \ell^2 = 54 \rightarrow \ell^2 =$	= 81 $\therefore \ell = 9$ and $b = 6$.	
19	The average of fi	rst 6 prime number is			
0	1. $6^{\frac{5}{-}}$ 2.	7 1/3 3	6 1/8 4	. none of these	
	Ans: 1				
2 –					٦
	Explanation				
	First six prime n	umbers are 2, 3, 5, 7,	11 and 13.		

Average = total of 6 prime numbers
61620. If 98% of students are present in a class and 8 students are absent, the total number
of Students in the class is
1. 2502.4003. 4204. 375Ans: 2Explanation
Given: Absent = 2%
2% or As: Total students =
$$\frac{8}{2} \times 100 - 400$$
21. The ratio of the mother's age to son's age is 5:1. The product of their species is0.
The ratio of their ages after 5 years will be1. 25:72. 7:363. 7:244.none of
Ans: 1Explanation
Let the present ages of mother and son be 5 rund x respectively.
Their ages after 5 years: (5x+5) and (x+5)
H is given that: $5x * x = 405 - 5x^2 = 405 + x^2 = 81 \rightarrow x = 9$
 \therefore Age after 5 years: $(5x+5)$ and $(x+5)$
H is given that: $5x * x = 405 - 5x^2 = 405 + x^2 = 81 \rightarrow x = 9$
 \therefore Age after 5 years = $(5x9 + 5) \cdot (9^{15})$
 $= 50:14$
 $= 25:7$ 22. A cart runs at the rate of 6 km per hour for the first 20 km distance and at 12 km per
hour
for the second 20 km distance. The average speed of the cart in kilometer is
1. 6.0 km/trAge: Taylor and the rate of 6 km per hour for the first 20 km distance is 40km.
The second 20 km distance. The average speed of the cart in kilometer is
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The second 20 km distance is 20km and hence the total distance is 40km.
The second are 6 kmph (V_1) and 12 kmph (V_2).
Since the distance travele

For the journey, total time taken = $3\frac{1}{3} + 1\frac{2}{3} = 5$ hr The total distance = 20+20 = 40 km. \therefore Average speed = 40/5 = 8 kmph. (Note. If the sum is understood properly, in competitive examinations, mostly the first method may take less time to solve the sum) 3. A particular sum was invested at 5% compound interest for two years and at the end of the period it amounted to Rs.441. What was the amount invested? 1. Rs.380 2. Rs.400 3. Rs.350 4. Rs.575 Ans: 2 Explanation For CI: A =P $(1 + \frac{5}{100})^2$ = 441 P $\times \frac{21^2}{20^2}$ = 441 \therefore P = 400. 4. How many bricks of 20 cm x 10 cm will be needed to make the floor of a room 25m in length and 16m wide? If the price of such bricks is Rs.3.10 per hundred bricks, find also the st 1. 15000 bricks Rs.500 3. 20000 bricks Rs.620 Ans: 3 Explanation i) No orbiticks = $\frac{\text{Area of floor}}{\text{Area covered by one brick}}$ $= \frac{2500 \times 1000}{20 \times 10} = 20000$ ii) Cost of bricks @ of Rs. 3.10 per brick = $\frac{20000 \times 3.10}{100} = 620$ by selling a vehicle for Rs.23,800, Kumar makes a profit of 19%. His gain in terms of rupee is 1. Rs.3,800 2. Rs.2,800 3. Rs.4,250 4. Rs.3600 Ans: 1				$\frac{10}{12} \text{ m} = \frac{1}{3} \text{ m}$	
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$=\frac{2500 \times 1000}{20 \times 10} = 20000$ iii) Cost of bricks @ of Rs. 3.10 per brick = $\frac{20000 \times 3.10}{100} = 620$ By selling a vehicle for Rs.23,800, Kumar makes a profit of 19%. His gain in terms of rupee is 1. Rs.3,800 2.Rs.2,800 3.Rs.4,250 4.Rs.3600 Ans: 1	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = -	Area of floor	. 25000 bricks Rs.600 . 10000 bricks Rs.650	ndred bricks, find also the
Solution<	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = -	Area of floor Area covered by one bri 500 × 1600	. 25000 bricks Rs.600 . 10000 bricks Rs.650	ndred bricks, find also the
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 By selling a vehicle for Rs.23,800, Kumar makes a profit of 19%. His gain in terms of rupee is 1. Rs.3,800 2.Rs.2,800 3.Rs.4,250 4.Rs.3600 Ans: 1 	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2}{3}$ ii) Cost of bricks (Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per bri	$\frac{25000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$	ndred bricks, find also the
By selling a vehicle for Rs.23,800, Kumar makes a profit of 19%. His gain in terms of rupee is 1. Rs.3,800 2.Rs.2,800 3.Rs.4,250 4.Rs.3600 Ans: 1	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No .of bricks = $\frac{23}{100}$ ii) Cost of bricks (Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brid	$\frac{25000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$	ndred bricks, find also the
- of rupee is 1. Rs.3,800 2.Rs.2,800 3.Rs.4,250 4.Rs.3600 Ans: 1	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2}{3}$ ii) Cost of bricks (Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brick	$\frac{25000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$	f 100% . Winn in interview
1. Rs.3,800 2.Rs.2,800 3.Rs.4,250 4.Rs.3600 Ans: 1 4.Rs.3600 4.Rs.3600	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2i}{2}$ ii) Cost of bricks (By selling a vehic	Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brid ele for Rs.23,800, K	$\frac{25000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$ $\frac{10000 \text{ bricks Rs.650}}{\frac{10000 \text{ ck}}{100}} = 620$ $\frac{10000 \text{ ck}}{100} = 620$	of 19%. His gain in terms
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Ans: 1	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2i}{2}$ ii) Cost of bricks (By selling a vehic of rupee is	Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brid ele for Rs.23,800, K	$\frac{25000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$ $\frac{10000 \text{ bricks Rs.650}}{\frac{10000 \text{ ck}}{100}} = 620$ $\frac{10000 \text{ ck}}{100} = 620$	of 19%. His gain in terms
Ans: 1	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2}{2}$ ii) Cost of bricks (By selling a vehic of rupee is 1. Rs.3,800	Area of floor Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per bri ele for Rs.23,800, K 2.Rs.2,800	$\frac{10000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$ $\frac{10000 \text{ bricks Rs.650}}{\frac{10000 \times 3.10}{100}} = 620$ $\frac{10000 \times 3.10}{100} = 620$ $3.\text{Rs.4,250}$	of 19%. His gain in terms 4.Rs.3600
	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{23}{100}$ ii) Cost of bricks (By selling a vehic of rupee is 1. Rs.3,800	Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brid ele for Rs.23,800, K 2.Rs.2,800	$\frac{10000 \text{ bricks Rs.600}}{10000 \text{ bricks Rs.650}}$ $\frac{10000 \text{ bricks Rs.650}}{\frac{10000 \times 3.10}{100}} = 620$ $\frac{10000 \times 3.10}{100} = 620$ $3.\text{Rs.4,250}$	of 19%. His gain in terms 4.Rs.3600
	1. 150 3. 200	00 bricks Rs.500 00 bricks Rs.620 Ans: 3 Explanation i) No of bricks = $\frac{2}{2}$ ii) Cost of bricks (By selling a vehic of rupee is 1. Rs.3,800 Ans: 1	Area of floor Area covered by one bri $\frac{500 \times 1600}{20 \times 10} = 20000$ @ of Rs. 3.10 per brid ele for Rs.23,800, K 2.Rs.2,800	. 25000 bricks Rs.600 . 10000 bricks Rs.650 \overline{ck} $ck = \frac{20000 \times 3.10}{100} = 620$ umar makes a profit of 3.Rs.4,250	of 19%. His gain in terms 4.Rs.3600



	$\therefore \frac{2x}{3} = 40 \rightarrow x =$	60		
29.	If the average of	of 40 numbers is 60, then	the sum of the numbe	rs is
	1. 5 Ans: 4	2.200	3. 100	4. 2400
	Explanation			0,
	Total = Averag	$e \times number of items$		001
	Total or sum o	f numbers = $40 \times 60 = 24$	400	X
30.	If $3x = 8y$ and	5y = 9z then $x/z = ?$		$\cdot \circ \circ \cdot$
	$1.\frac{24}{5}$	2. 83/15 3	. 9/8	4. 11/83
	Ans: 1			
	Explanation		<u> </u>	
	From given da	ta, $x = \frac{8y}{3}$, $z = \frac{5y}{9}$,	\checkmark	
	$\therefore \frac{x}{z} = \frac{\frac{8y}{3}}{\frac{5y}{9}} = \frac{8}{3} \times \frac{4}{5}$	$=\frac{24}{5}$	5	
31. has]	From his incom Rs. 1,305 cash with	ne, a proprietor invests 6 n him, Find his total inves	55% in machinery, 20 ⁴ stment.	% in raw material and still
	1. Rs.7,500	2. Rs.7,225	3.Rs.8700	4.Rs.1,300
_	Ans: 3			
	Explanation			
C	Balance after i	nvestment = 1-0.65 - 0.2	20 = 0.15, which is eq	ual to Rs. 1305.
δ	∴ Total investr	$ment = \frac{1305}{0.15} = \frac{1305 \times 100}{15} = \frac{100}{15} = \frac{100}{1$	= 8700	
32.	What percent o	f 340 kg is 119 Kg?		
	1.28%	2. 38.75 %	3. 35 %	4.45 %
	Ans:3			

$\frac{x}{100} \times 340 = 119, \therefore x = \frac{119}{340} \times 100 = 35$ 33. What is 30% of 40% of 260? 1. 26.2 2. 31.2 3. 28.2 4. 43.2 Ans: 2 Explanation Ans: $\frac{30}{100} \times \frac{40}{100} \times 260 = \frac{30}{100} \times \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 Ans: 3 Explanation:	50
33. What is 30% of 40% of 260? 1. 26.2 2. 31.2 3. 28.2 4. 43.2 Ans: 2 Explanation Ans: $\frac{30}{100} \times \frac{40}{100} \times 260 = \frac{30}{100} \times \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 Ans: 3 Explanation: Explanation: Explanation: Ans: 4. 4	50
1. 26.2 2. 31.2 3. 28.2 4. 43.2 Ans: 2 Explanation Ans: $\frac{30}{100} \times \frac{40}{100} \times 260 = \frac{30}{100} \times \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 4. 4 Ans: 3 Explanation:	50
Ans: 2 Explanation Ans: $\frac{30}{100} \times \frac{40}{100} \times 260 = \frac{30}{100} \times \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 Ans: 3 Explanation:	50
Explanation Ans: $\frac{30}{100} x \frac{40}{100} \times 260 = \frac{30}{100} x \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 Ans: 3 Explanation:	<u></u>
Ans: $\frac{30}{100} \times \frac{40}{100} \times 260 = \frac{30}{100} \times \frac{40}{100} \times 260 = 12 \times 2.6 = 31.2$ 34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. 1/3 2. 3/2 3. 6 Ans: 3 Explanation:	
34. If x: y = 2:3 and 2:x = 1:2, then the value of y is 1. $1/3$ 2. $3/2$ 3. 6 Ans: 3 Explanation:	
1. 1/3 2. 3/2 3. 6 4. 4 Ans: 3 Explanation:	
Ans: 3 Explanation:	
Explanation:	
From the given data, $3x = 2y$ and $x = 4$; $\therefore y=6$	
35. 70.009 - 19.07007 =?	
1. 50.599932. 50.999023. 60.999934. 50.93893	3
Ans: 4	
36. If (45% of 180) = \sqrt{x} , find x.	
1.3 2.8 3.7 4.9	
Explanation	
Given: $\frac{45}{100} \times 180 = \sqrt{x} \rightarrow \frac{9}{20} \times 180 = 81 = \sqrt{x}$, i.e., $\therefore \sqrt{x} = 81 \therefore x = 9$	
37. The H.C.F. of 15, 30, 45, 60 and 75 is	
1. 15 2. 30 3. 45 4. 60	
Ans: 1	

5

38.	The L.C.M. of	4, 8, 12 and 16 is		
	1.8	2.12	3. 16	4. 48
	Ans: 4			
	Explanation			
	Given numbers	are 1×4, 2×4, 3×4	, 4×4	C
	\therefore LCM = 3×4×	4		()
	= 48 (Note: 48	3 is divisible by 8, 1	2, 16 and 48)	
20	Which of the fe	llowing numbers is	rim_{0} 215 16 17 18 on	4.20
59.	1 17	1000000000000000000000000000000000000	3 15	416
	1. 17	2.10	5.15	
	Ans: 1			
			(
40.	The angle which ex	xceeds its compleme	ent by 20° is	0
	1 300	0 55 ⁰	3 60°	1 15°
	1.50	2. 55	5. 00	4. 45
Ans	:: 2			
Exp	lantion			
2p		5	κO'	
Let	the number be x an	id its complement =	= 90-x	
Giv	en $x - (90 - x) = 20$	X		
	, <i>,</i> ,		•	
$\therefore 2z$	$x = 110 \rightarrow x = 55^{\circ}$			
41.	In a right-angles tri	iangle, the square of	f the hypotenuse is twi	ce the product of the other
	sides. The triangle	is		-
		2 1	a scales right sucled this	anala of analas 450 450 00
	1. An equilateral	2.18	osceles right angled tria	angle of angles 45° , 45° , 90
	5. with angles 50	, 00 , 90	She of these	
	Ans :2			
Exr	lanation			



43. A pair of opposite sides of a cyclic quadrilateral are equal. Which is true?

- 1. Its diagonal are equal
- 2. It is rhombus
- 3. It is a parallelogram
- 4. No definite relation exists
 - Ans: 1



 $\therefore 2x-y = 4 \text{ and } x + y = 5$ $\therefore 3x = 9$ x = 3 and y=2 $\therefore xy = 6$

46. In a group of 500 people, 200 can speak Tamiz only while only 125 can speak English only. The number of people who can speak both Tamiz and English are



	Option (2) $\rightarrow \sec^2\theta + \csc^2\theta \neq 1$
	Option (3) $\rightarrow \sin^2\theta + \cos^2\theta = 1$
	Option (4) \rightarrow 1+1=2
	Option 3 only satisfies the given condition.
	49. Simplify: $\frac{(2^2)^3 + (2^3)^2}{4}$
	Ans.
	$\frac{(2^2)^3 + (2^3)^2}{4} = \frac{2 \times 2^6}{2^2} = 2^5 = 32 \text{ or } \frac{4^3 + 8^2}{4} = \frac{128}{4} = 32$
5	0. The mean/average of the cubes of the first n natural number is
	1. $\frac{n(n+1)^2}{4}$ 2. n^2 3. $\frac{n(n+1)(n+2)}{8}$ 4. None
	Ans: 1.
	Explanation
	The sum of cubes of the first n natural numbers = $\frac{[n(n+1)]^2}{n}$
	$\frac{4}{4}$
	$\therefore \text{ Their average } = \frac{\left[\frac{\ln(n+1)\right]^{-}}{4} \div n}{4} \div n = \frac{\ln(n+1)^{-}}{4}$
	Socie
	CC.
2	