

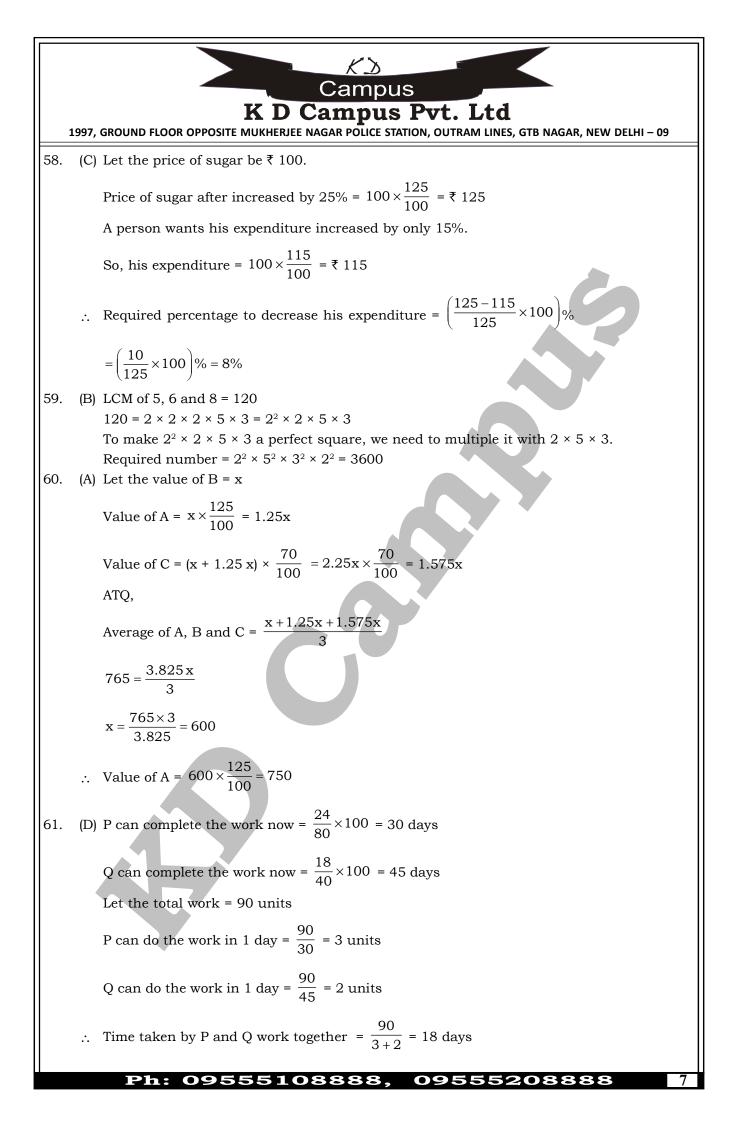
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26.	(A)	This effort culminating in 1872 has been popularly labeled as the first population census of India However, the first synchronous census in India was held in 1881. Since then, censuses have been undertaken uninterruptedly once every ten year.						
28.	(D)	Tech giant Google Wednesday unveiled a new app 'Bolo' that aims to help children in primary school learn to read in Hindi and English. The free app, which is being launched in India first, uses Google's speech recognition and text-to-speech technology.						
29.	(A)	The kelvin is the SI unit of thermodynamic temperature, and one of the seven SI base units. Unusually in the SI, we also define another unit of temperature, called the degree Celsius (°C).						
31.	(C)	Microwaves are used in radars because they can pass through any object.						
32.	(C)	'Jamming' refers to hitting the tennis ball straight to the opponent's body not allowing them to extend the racquet to hit the ball well. Some of the other popular terms associated with lawn tennis are Ace, Back-court, Deuce, Double Fault, etc.						
33.	(C)	Mahaweli Ganga, (Sinhalese: "Great Sandy River"), river, central and eastern Sri Lanka. At 208 mi (335 km) in length, it is Sri Lanka's longest river.						
34.	(B)	Pandit Budhaditya Mukherjee is an Indian classical sitar and surbahar maestro of the Imdadkhani gharana (school), recognizable by his intricate vocalic playing complemented by spectacular high speed playing.						
35.	(B)	The first defence minister of independent India was Baldev Singh Chokkar, who served in Prime Minister Jawaharlal Nehru's cabinet during 1947-52.						
37.	(C)	Jaya Pal was a famous ruler from Hindushahi Dynasty, which extended from Punjab to Kabul. He ruled the Hindu Shahi kingdom from 964 to 1001 CE. He was defeated by Mahmud of Ghazni (997-1030) in Ghazni's first attack in the year 1000 AD.						
38.	(B)	The upper part of the mantle becomes solid. The outermost layer, called the crust, is solid, too. Together, these solid parts are called the lithosphere. Earth's crust is made up of hard rocks.						
40.	(A)	The tear glands (lacrimal glands), located above each eyeball, continuously supply tear fluid that's wiped across the surface of your eye each time you blink your eyelids.						
42.	(D)	The correct answer is option 2 i.e. Electrons. The atom has a very basic structure in which the central part is made up of positively charged particles called protons neutrally charged particles called neutrons.						
43.	(A)	Maharashtra is known for its Warli folk paintings. Warli is the name of the largest tribe found on the northern outskirts of Mumbai, in Western India. Despite being in such close proximity of the largest metropolis in India, Warli tribesmen shun all influences of modern urbanization.						
44.	(D)	The greatest ruler of the Pratihara dynasty was Mihir Bhoja. He recovered Kanauj (Kanyakubja) by 836, and it remained the capital of the Pratiharas for almost a century. He built the city Bhojpal (Bhopal).						
45.	(A)	The Speaker shall decide whether a question, or a part thereof, is or is not admissible under these rules and may disallow any question, or a part thereof, when in his opinion it is an abuse of the right of questioning or is calculated to obstruct or prejudicially affect the procedure of the House.						
46	(A)	Gymnosperms are the flowerless plant that produces cones and seeds. The term gymnosperm literally means "naked seed," as gymnosperm seeds are not encased within an ovary.						
48.	(C)	Lucknow, in Uttar Pradesh (India), is the centre of chikankari , a skill of more than 200 years old. It literally means 'embroidery'.						
50.	(B)	The second United Nations Global Sustainable Transport Conference will be held from 14- 16 October 2021 in Beijing, China.						

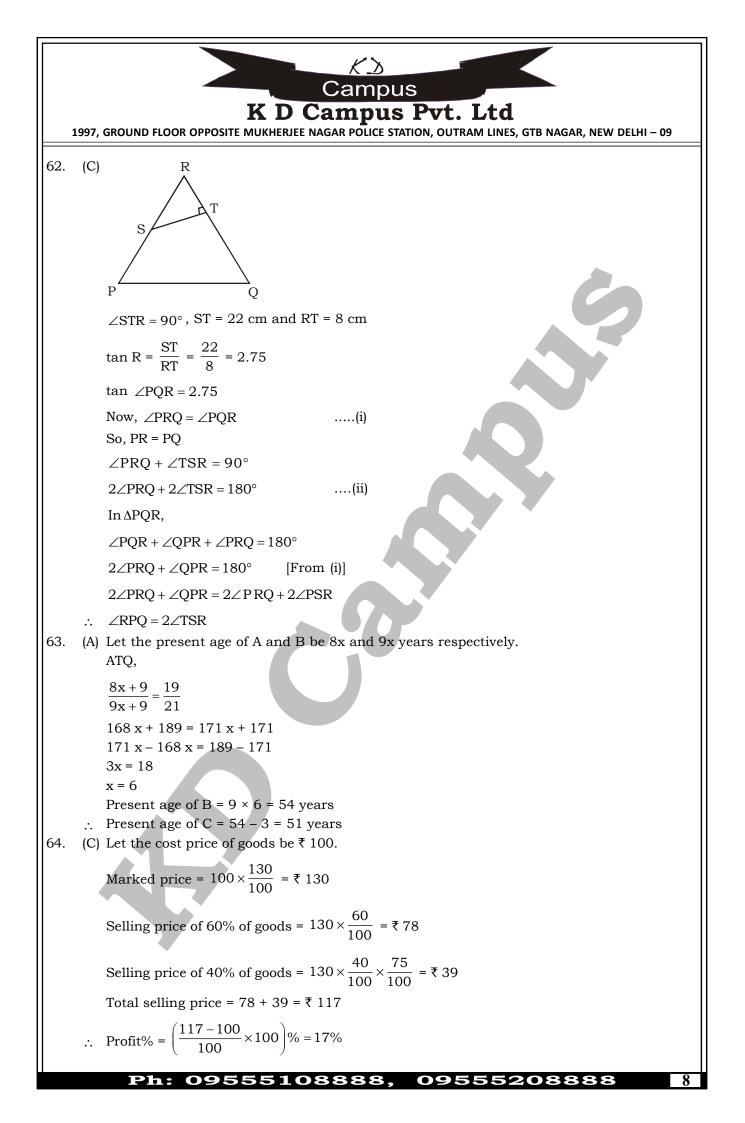
EXAMPLE 1287. CONTRACT MARKET MAGAR POLICE STATION, OUTRAM LIMES, GTB MAGAR, NEW DILHI- 69
S1. (A) P = ₹ 15000
R = 12%
T = 6 years
Simple interest =
$$\frac{15000 \times 12 \times 6}{100} = ₹ 10800$$

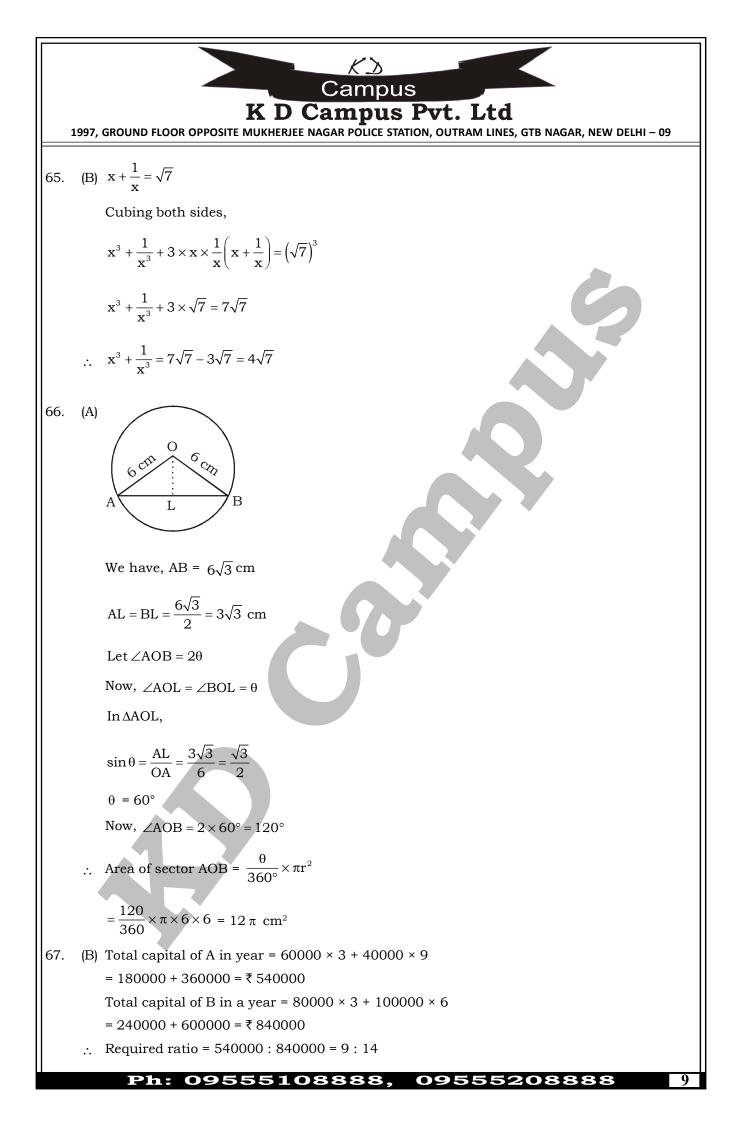
Amount = 15000 + 10800 = ₹ 25800
Por person A,
P = ₹ 25800
R = 10%
T = 2 years
Compound interest = $25800 \left(1 + \frac{10}{100}\right)^2 - 25800$
 $= 25800 \times \frac{11}{10} \times \frac{11}{10} - 25800$
 $= 25800 \times \frac{11}{10} \times \frac{11}{10} - 25800$
R = 10%
T = 2 years
SI = $\frac{25800 \times 15 \times 2}{100} = ₹ 7740$
 \therefore Required difference = 7740 - 5418 = ₹ 2322
52. (C) Let the height of the glass be h cm.
Radius = $\frac{h}{2}$ cm
Volume of glass = Volume of 32000 drops
 $\frac{1}{3}\pi \times \left(\frac{h}{20}\right)^2 \times 12 = \frac{4}{3}\pi \times \left(\frac{1}{20}\right)^3 \times 32000$
 $\frac{h^3}{4} = 4 \times \frac{1}{8000} \times 32000$
 $h^3 = 4 \times 4 \times 4$
h = 4 cm
53. (D) Required number of pew science book = $(120000 + 30000) \times \frac{45}{100} - 120000 \times \frac{40}{100}$
 $- 150000 \times \frac{45}{100} - 120000 \times \frac{40}{100} = 67500 - 48000 = 19500$
54. (C) Let the total distance be 100 km.
 \therefore Average speed = $\frac{\text{Total distance}}{\text{Total time}} = \frac{100}{30} + \frac{100}{120} = \frac{100}{\frac{1}{2} + \frac{3}{4} + \frac{1}{12}}$
 $= \frac{100}{0 + 9 + 1} - \frac{100}{16} \times 12 = \frac{1200}{16} = 75 \text{ km/hr}$

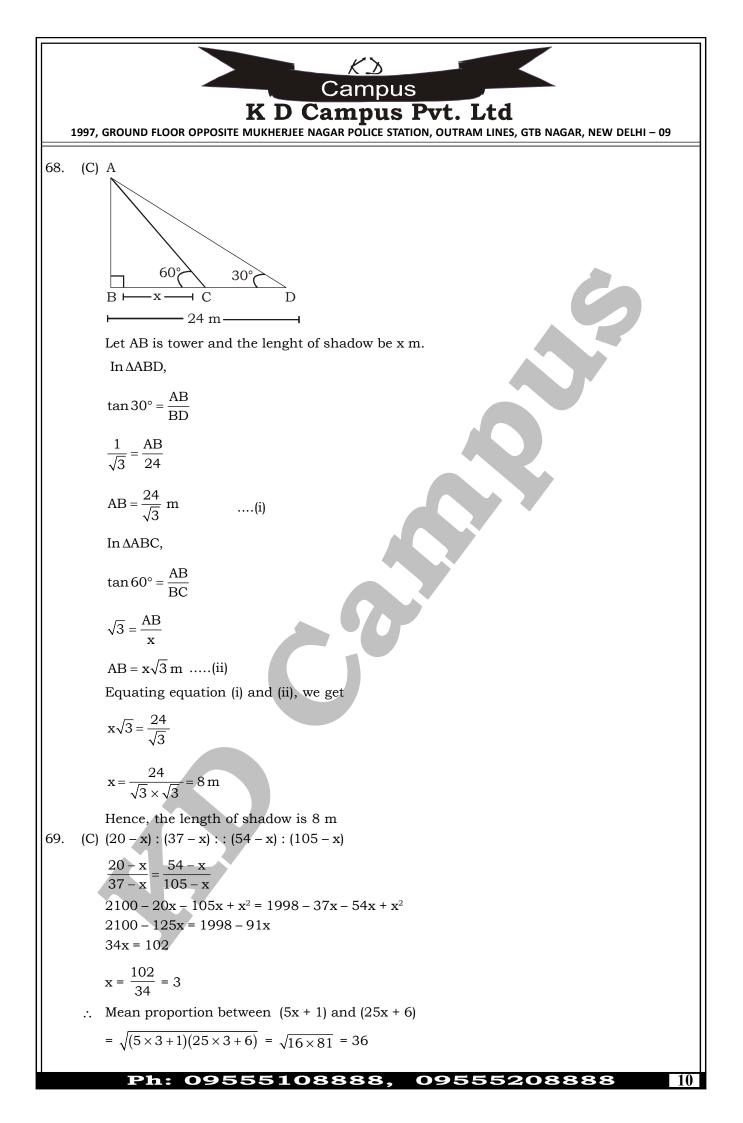
EXAMPLE 1997. COMPARISING MURREPOLICE STATION, OUTRAM LINES, GTE MAGAR, NEW DEHI-09
35. (A)
$$\frac{1}{\sqrt{9} + \sqrt{3} + 1} = \sqrt{9}a + \sqrt{3}b + c$$

 $\frac{1}{3^{\frac{3}{2}} + 3^{\frac{3}{2}} + 1} = 3^{\frac{3}{2}}a + 3^{\frac{3}{2}}b + c$
 $\frac{1}{3^{\frac{3}{2}} - 3^{\frac{3}{2}} + 1^{\frac{3}{2}}\left[(3^{\frac{3}{2}} - 1)\right] = 3^{\frac{3}{2}}a + 3^{\frac{3}{2}}b + c$
 $\frac{1}{\left[(3^{\frac{3}{2}})^{\frac{3}{2}} - 3^{\frac{3}{2}} + 1^{\frac{3}{2}}b + c$
 $\frac{1}{\left[(3^{\frac{3}{2}})^{\frac{3}{2}} - 1^{\frac{3}{2}}\right] = 3^{\frac{3}{2}}a + 3^{\frac{3}{2}}b + c$
 $\frac{3^{\frac{3}{2}}}{2} - \frac{1}{2} = 3^{\frac{3}{2}}a + 3^{\frac{3}{2}}b + c$
By comparing, we get
 $a = 0, b = \frac{1}{2}$ and $c = -\frac{1}{2}$
 $\therefore 5a - 4b + 8c = 5 \times 0 + 4 \times \frac{1}{2} + 8 \times -\frac{1}{2}$
 $= 2 - 4 = -2$
56. (B) $\frac{\sin A \tan A}{1 - \cos A} = \frac{\sin A \frac{\sin A}{4} \frac{\sin A}{4} \frac{\sin A}{4} \frac{\cos A}{4}$
 $= \frac{\sin^{3} A}{\cos A(1 - \cos A)} = \frac{1 - \cos^{3} A}{4 - \cos A}$
 $= \frac{(1 - \cos A)(1 + \cos A)}{\cos A(1 - \cos A)} = \frac{1 + \cos A}{\cos A}$
 $= \frac{1 + \cos A}{\cos A} = \frac{1 + \sec A}{\cos A} = \frac{1 - 6 + 2 \times \frac{1}{2,5}}{5 + 5 + (2 \times 5) - 6 \times 2 + 2.5} = 5 \cdot 8 + (0 - 4) = 11$
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Campus
Pyt. Ltd1997, GROUND FLOOD OPPOSITE MURRER TEASAR POLICE STATION, OUTRAM LINES, GTB NACAR, NEW DELHI - 0970. (D) The last digit in the expansion of
$$(2457)^{7\times}$$
 is depend on value of 7
When 7 raise to power 2, last digit is 9
When 7 is raised to power 2, last digit is 1
So, it repeats its last digit after every power multiple of 4 and the process continues like
When 7 raise to power 5, last digit is 9
When 7 raise to power 5, last digit is 9
When 7 raise to power 6, last digit is 9
When 7 raise to power 7, last digit is 1
So, divide the power by 4, $\left(\frac{754}{4}\right)$, remainder is 2
Hence, last digit is decided by power 2, i.e. 971. (A) Total deduction - $24800 \times \frac{10}{100} + 4540 - 2480 + 4540 - ₹7020$
 \therefore Net salary = $24800 + 32600 - 7020 = ₹70400 - 7020 = ₹ 5038072. (C) Basic salary and total allowance of Anil = $30850 + 5250 = ₹ 36100$
Let the basic salary be $₹x$.
Total allowance = $15550 + 5000 = ₹ 20550$ 73. (B) Total deductions = $19200 \times \frac{10}{100} = ₹ 1920$
 \therefore Other deductions = $19200 \times \frac{10}{100} = ₹ 1248$ 74. (D) Basic salary of Sumil = $\frac{1920}{18400} \times 100$
 $)\% = 4.34\% = 4\%$ 75. (B) Provident Pum et $\frac{1100}{18400} \times 100 = ₹ 1100$
Basic salary of Tara = $\frac{1100}{100} \times 100 = ₹ 1100$
 \therefore Net salary of Tara = $\frac{1100}{100} \times 100 = ₹ 1100$$

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MEANINGS IN ALPHABETICAL ORDER

Abolish	formally put an end to (a system, practice,	समाप्त करना		
	or institution)			
Adversary	one's opponent in a contest, conflict, or dispute	विरोधी		
Assertion	a confident and forceful statement of fact or belief अभिकथन			
Bereavement	the action or condition of being bereaved	वियोग		
Cherish	protect and care for (someone) lovingly	अच्छा लगना		
Deceit	the action or practice of deceiving someone by छल			
	concealing or misrepresenting the truth			
Demise	a person's death	मृत्यु		
Embezzle	theft or misappropriation of funds placed in one's	गबन		
	trust or belonging to one's employer			
Endurance	the fact or power of enduring an unpleasant or	धैर्य		
	difficult process or situation without giving way			
Enormous	very large in size, quantity, or extent	विशाल		
Fattening	(of a food) causing an increase in the weight	मेद		
	of someone who eats it			
Guile	sly or cunning intelligence	छल		
Integrate	combine (one thing) with another so that they	एकोकृत		
	become a whole			
Intuition	the ability to understand something immediately,	सहज बोध		
	without the need for conscious reasoning			
Obstruct	the action of obstructing or the state of being	ৰাধা		
	obstructed			
Surfeit	an excessive amount of something	अतिरेक		
Surveillance	close observation, especially of a suspected	निगरानी		
	spy or criminal			
Trivial	of little value or importance	मामूली		
Vigilance	the action or state of keeping careful watch for	जागरूकता		
	possible danger or difficulties			
Visionary	(especially of a person) thinking about or	काल्पनिक		
	planning the future with imagination or wisdom			

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SSC MOCK TEST - 302 (ANSWER KEY)

1. (C) 2. (D) 3. (A) 4. (C) 5. (B) 6. (C) 7. (A) 8. (A) 9. (C) 10. (D) 11. (C) 12. (A) 13. (B) 14. (D) 15. (A) 16. (C) 17. (B) 18. (D) 20. (B) 21. (A) 22. (B)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		71. (A)	
22. (B) 23. (D)	47. (D) 48. (C)	72. (C) 73. (B)	97. (A) 98. (A)
24. (D)	49. (B)	74. (D)	99. (D)
25. (A)	50. (B)	75. (B)	100. (C)

- 76. (A) Replace 'the English' with 'English'.
- 77. (A) Replace 'with' with 'of'.
- 90. (D) The correct spelling of 'Decieve' is 'Deceive'.
- 91. (B) The correct spelling of 'Accomodate' is 'Accommodate'.