	Sagal Shivatava (1900290100127)  Date Page
	APTITUDE - NEEK 4
	SOUARE ROST & CUBE ROST
	1) The cube loat of 0.000216 il:
	a) .6 b) .60 c) 77 d) 87
	Solution => $(.000216)^{1/3} = (216)^{1/3} = \frac{5}{100} = [0.06]$
	(2) First $x$ = $\sqrt{162}$ $x$
,	a) 12 b) 14 c) 144 d) 196
	Solution => x2 = \( \text{162} \text{162} \text{128} = \( \square \text{20736} = \text{144} \)
	(3) The least perfeit squale, which is divisible by each ay 21, 36 and 66 is:
~	a) 213444 b) 214344 c) 214434 d) 231444

Classmate

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LCM (21, 36, 66) = 2772

Nay 2772 = 2x2x3x3x7x11

To make it a perfect square, it must be multiplied by 7x11

=7 Reg. No  $= 2^2 \times 3^2 \times 7^2 \times 11^2 = 213444$ 

a) 1.05

by 1.25

1.95

1.55

Solution > (1.25)

(5) 3 35 + \(\int\_{125} = 17.88\) then what will be the value of \(\sqrt{80} + 615\)

9) 13.41

b) 20.4b

c) 21.66

dy 22.35



Salution

$$\frac{1}{1000} = \frac{1000}{1000} =$$

$$\sqrt{4a^2 - 4a + 1} + 3a = \sqrt{12 + (2a)^2 - 2x1x} = 2a + 3a$$

$$= \sqrt{(1-2a)^2 + 3a} = 1-2a + 3a$$

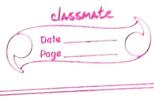
## Solution

$$X = \sqrt{3+1} \times \sqrt{3+1} = 3+1+2\sqrt{3} = 2+\sqrt{3}$$
 $\sqrt{3}-1 \sqrt{3}+1 = 2$ 

$$y = \sqrt{3} - 1 = \sqrt{3} + 1 - 2\sqrt{3} = 2 - \sqrt{3}$$

$$\therefore x^2 + y^2 = (21\sqrt{3})^2 + (2-\sqrt{3})^2 = 2(4+3)^2 = [14]$$

Solution



7.826

1 
$$\sqrt{5} = 2.23b$$
, then the value of  $\sqrt{5} - 10 + \sqrt{125}$   
is equal to:

a)  $5.59$ 
 $\sqrt{7.926}$ 
 $\sqrt{9.944}$ 
 $\sqrt{9.$ 

6)	1 525	~ 14	× _1\	il	egual	to:	
		125	V196		V	,	
	1	1-5	•				

Solution
$$\frac{25}{3} \times \frac{1}{3} \times \frac{1}{3} = \frac{5}{3}$$