PERL EDUCATION DPPP DAILY PRACTICE PAPER		COLLADE					
		AND SQUARE ROC	TS	MATHEMATICS CLASS-8TH DPP-1			
1.	Find the squares	of the following.					
	(a) 36ab	(b) -5.12	(c) $\frac{4}{12}$	(d) $\frac{2a}{7b}$			
2	Chack if the follo	wing numbers are perfect s	13	70			
2.	(a) 3600	(b) 6543	$(c) 324^{\circ}$	9 (d) 4475			
3.	<b>3.</b> Without actual calculation, find the value of the sum $1 + 3 + 5 + 7 + 9$ .						
4.	<b>4.</b> Check whether the following numbers are perfect squares or not, by expressing each as						
	the sum of odd n	umbers.					
	(a) 80	-levelation find the much on	(b) 64				
5.	Without actual ca	alculation, find the number (	of non-perfect s	square numbers between			
6.	Without actual c	alculation find the difference	e between 576	and 625			
7.	Write the square	e of 23 as the sum of two con	secutive natur	al numbers.			
8.	Check whether the	he following numbers are pe	erfect squares.				
	(a) 2025	(b) 10584	(c) 7050	6 (d) 5376			
9.	Find the smallest	t number with which the fol	lowing number	rs should be multiplied, so			
	that the product	is a perfect square.					
	(a) 5184	(b) 5103	(c) 4375	5 (d) 3675			
10	Find the smallest	t number with which the fel	louring number	a should be divided as that			
10	the quotient is a	nerfect square	lowing number	s should be divided, so that			
	(a) 12960	(b) 2700	(c) 112(	00 (d) 8820			
			(-)				



## **SQUARE** AND **SQUARE ROOTS**

**MATHEMATICS CLASS-8TH** DPP-2

- **1.** Find the value of  $\frac{555^2}{12321}$  without actual calculation.
- **2.** Find the value of  $\frac{\frac{4004^2}{1002001}}{\frac{1002001}{1002001}}$  with out actual calculation
  - 3030303<sup>2</sup>
- 3. Find the value of  $\frac{3030303}{(1020304030201) \times (1+2+3+4+5+4+3+2+1)}$
- 4. Find the squares of the following numbers using the shortcut method. a. 125<sup>2</sup> b. 35<sup>2</sup> c. 85<sup>2</sup>

d. 15<sup>2</sup>

- 5. Write the value of  $7^2 + 8^2 + 56^2$  as a square of a number.
- Write the number 43<sup>2</sup> as the sum of three perfect squares. 6.
- 7. Check whether the following are Pythagorean triplets.

a. (13, 84, 85)	c. (9, 12, 15)
b. (8, 15,19)	d. (9, 40, 41)

8. Write a Pythagorean triplet having 8 as its smallest element.

9. Write a Pythagorean triplet having 30 as its smallest element. 10. Write a Pythagorean triplet having 26 as its largest element.

## **PERL EDUCATION**



1. Find the square roots of the following numbers by guessing the units and tens digits

- (a) 729(c) 5625(b) 1764(d) 324
- 2. Find the square roots of the following numbers by the prime factorization method.
  - (a) 2601 (c) 1225
    - (b) 484 (d) 7569
- 3. Find the square root of the following numbers using the successive subtraction method.
  - (a) 16 (c) 81
    - (d) 121
- 4. Find the square root of the following numbers using the long division method.
  - (a) 784 (c) 6724
  - (b) 3481 (d) 12996
- 5. Find the least number to be subtracted from 12345 to get a perfect square
- 6. Find the least number to be added to 12345 to get a perfect square.
- 7. Find the length of the side of a square with area 324 sq cm.
- 8. Find the square root of 2601 using long division and hence find the value of the expression  $\sqrt{2601} + \sqrt{26.01} + \sqrt{0.2601} + \sqrt{0.002601}$
- 9. Find the square root of the following decimal numbers using long division method.
  (a) 68.89
  (b) 1.2456
  (c) 7.84
  (d) 100.16
  - (b) 1.3456 (d) 108.16
- 10. Find the square root of the following numbers using long division method correct up to 2 decimal places.

(a) 68	(c) 18.74					
(b) 2.34	(d) 545					
11. Find the square root of the following rational numbers.						

(a)  $\frac{225}{400}$ (b)  $7\frac{1}{4}$ 

(b) 64

(c)  $56\frac{1}{4}$ (d) $\frac{7}{12}$ 

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## **PERL EDUCATION**



RIGHTEO

MATHEMATICS CLASS-8TH DPP-4

А.	Sel	lect the appro	priate	choice fo	r the follo	owing st	atemer	nts		
	1.	. The square of 4ab is								
		a. 16qb		b.	16 a <sup>2</sup> b <sup>2</sup>		с.	$4 a^2 b^2$	d.	2ab
	2.	The square root of 16 is								
		a. 4		b.	2		с.	256	d.	8
	3.	The numberfrom the following is not a perfect square.								
		a. 4096		b.	4356		с.	4228	d.	4489
	4.	The square o	of 25 is							
		a. 1225		b.	625		c.	225	d.	50
	5. The number of zeroes in the square of 300 of									
				\	1				// .	
		a. 2		b.	8		с.	6	d.	4
	6.	Match the fo	llowing	g number	s in the fi	irst colu	mn to t	heir respectiv	ve square r	oots.
				Numbe	r		Sour	are Roots	1	
			40000	40000 I		0.06		_		
			В	225		II	0.6			
			С	0.0036		III	200	)		
			D	400		IV	20	//		
			Е	0.36		V	15	/		
	_									
	7.	Write the lea	ist nur	iber x suc	ch that th	e follow	ing nur	nbers are per	fect square	es
		a. 1800 –	x				c.	1800 × x		
		b. 1800 +	- x				d.	1800 ÷ x		
	8.	Find the sau	ares of	the follo	wing num	ibers.				
	0.	a. 34		b.	2.65		C.	3abc	Ь	7
									u.	9
	9.	Check if the	followi	ng numb	ers are pe	erfect sc	juares.			
		a. 8100		b.	1022		с.	1370	d.	4346
	10	. Find the squ	are roc	ots of the	following	g numbe	ers.			
	-	a. 441		b.	20449	,	c.	126.1129	d.	4

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