APPENDIX - B

PILOT STUDY VERSION OF THE ACHIEVEMENT TEST

NAME OF THE SCHOOL:									
ROLL NO.			DATE:						
			СНАРТІ	ARIT ER I – RA	HMETI ATIONA	_	MEBRS		
1 1	Write the reciprocals of.								
	a.	-4,		b.	$\frac{3}{4}$		c	$\frac{-6}{5}$	
		Ans.	***************************************	Ans.	15 Wash for days		. A:	ns	
1 2	Whic	h is the	greater to	the two					
	a.	3 4	or its rec	procal	b.	$\frac{-2}{3}$	or its rec	iprocal	
		Ans.		- WPS MASS A	Ans	****		Historia de la compansión de la compansi	
1.3	Write	the fol	lowing rat	ional num	bers in a	ascendi	ng order.		
	a.	<u>4</u> 9	<u>5</u> <u>12</u>	7 15	b .	-3 8	- <u>3</u> 5	$\frac{-1}{2}$	
	Ans.				Ans ⁻			NAMES OF STREET	·····
1.4	Write	in the	standard fo	orm.					
	a.	$\frac{-16}{56}$			b	$\frac{-14}{42}$			
	Ans	WARREN			Ans		· · · · · · · · · · · · · · · · · · ·		
1.5 Which of the following is a pair of equal rational number				l numbers					
	a.	9 13	, 45/65		b:	<u>15</u> <u>45</u>	$, \frac{7}{21}$		
	Ans				Ans.				

CHAPTER 2 - OPERATIONS ON O

21 Add

a.
$$\frac{3}{7} + \frac{1}{7}$$
, b. $\frac{4}{9} + \frac{(-5)}{9}$ c. $\frac{3}{8} + \frac{(-5)}{12}$

Ans Ans Ans

$$\frac{6}{8} + \frac{4}{10}$$

Ans:

$$e \frac{1}{7} + \frac{1}{6} + \frac{2}{5} + \frac{1}{6} + \frac{1}{7}$$

$$= \left(--- + \frac{1}{7} \right) + \left(--- + --- \right) +$$

f.
$$\frac{2}{7} + \frac{3}{8} = \frac{3}{8} + \frac{3}{8}$$

g.
$$\frac{5}{9} + 0 =$$
______ $0 +$ _____

h.
$$3 \frac{2}{7} + 2 \frac{2}{7}$$

2 2 Subtract

a.
$$\frac{(-2)}{3} - \frac{1}{7} = -\frac{(-2)}{3} + \dots$$
 b $\frac{1}{4} - \frac{(-1)}{3} = \frac{1}{4} + \dots$

c.
$$2 \frac{1}{5} - 1 \frac{1}{4} =$$
 d. $\frac{4}{9} - \frac{2}{9} + \frac{1}{9} =$

23 Multiply

a.
$$\left(\frac{4}{-5}\right)x\left(\frac{-3}{8}\right)$$
 b $\left(\frac{-5}{7}\right)x\left(\frac{-1}{2}\right)$

Ans _____ Ans

c.
$$\left(\frac{-2}{9}\right) \times 0 =$$

c.
$$\left(\frac{-2}{9}\right) \times 0 =$$
 d $\frac{2}{5} \times \frac{5}{7} \times \frac{7}{8} \times 4 =$

e.
$$\frac{13}{17}$$
 x (-1) = ____ x ___ =

2 4. Write the multiplicative inverse

b
$$\frac{3}{5}$$

Ans.

25 Simplify

a.
$$\frac{1}{3} \times \left(\frac{3}{7} + \frac{1}{3} \right)$$

a.
$$\frac{1}{3} \times \left(\frac{3}{7} + \frac{1}{3} \right)$$
 b. $\frac{1}{2} \times \left(\frac{3}{7} - \frac{1}{3} \right)$

Ans _____

26 Divide

$$a \qquad \frac{3}{11} \div \frac{4}{7}$$

a
$$\frac{3}{11} \div \frac{4}{7}$$
 b $\left(\frac{-9}{13}\right) \div \left(\frac{6}{-11}\right)$ c $\left(\frac{4}{3}\right) \div (-1)$

$$c \left(\frac{4}{3}\right) \div (-1)$$

Ans

_____ Ans ____ Ans ____

d.
$$\frac{3}{8} \div \frac{3}{8}$$

d.
$$\frac{3}{8} \div \frac{3}{8}$$
 e $\left(\frac{2}{4} + \frac{3}{5}\right) \div \frac{7}{20}$

Ans

Ans

2.7 Find the decimal presentation of .

a
$$\frac{2}{3}$$
 b $\frac{-7}{25}$ c $\frac{3}{4}$

$$\frac{-7}{25}$$

$$\frac{3}{4}$$

Ans _____ Ans ____ Ans. ____

2.8	Convert the following in the form	p q

- a. 025 b 035 c. 4.37

Ans _____ Ans ____ Ans. ____

GOOD GOING

CHAPTER 3 – EXPONENTS

3 1 Fill in the boxes

a.
$$7^3 \times 7^2 = 7^{\square}$$

b.
$$\left(\frac{-3}{8}\right)^{\square}$$
 $\times \left(\frac{-3}{8}\right)^{\square} = \left(\frac{-3}{8}\right)^{12}$

3 2 Simplify

a.
$$\left(-\frac{4}{5}\right)^2 \times \left(-\frac{4}{5}\right)^3$$
 b $4^6 \div 4^2$

c.
$$\left(\frac{2}{7}\right)^3 \div \left(\frac{2}{7}\right)^4$$

Ans

33 Fill in the boxes

a
$$(4^2)^3 = (4)^{\square}$$

b.
$$\left\{ \left(\frac{-2}{11} \right)^4 \right\}^3 = \left(\frac{-2}{11} \right)^{\square}$$

c.
$$\left(\frac{4}{3}\right)^2 = \frac{4^2}{\Box}$$

d.
$$\left(\left(\frac{-3}{11}\right) \times \left(\frac{-2}{7}\right)\right)^5 = \left(\frac{-3}{11}\right)^{\square} \left(\frac{\square}{\square}\right)^5$$

2.8	Convert the following in the form	<u>p</u>
-----	-----------------------------------	----------

- 0.25 b.
 - 0.35
- 4.37

Ans: _____ Ans: ____ Ans: ____

GOOD GOING

CHAPTER 3 – EXPONENTS

3.1 Fill in the boxes:

a.
$$7^3 \times 7^2 = 7^{\square}$$

b.
$$\left(\frac{-3}{8}\right)^{\square}$$
 $x \left(\frac{-3}{8}\right)^{\square} = \left(\frac{-3}{8}\right)^{12}$

3.2 Simplify

a.
$$\left(\frac{4}{5}\right)^2 \times \left(\frac{4}{5}\right)^3$$
 b. $4^6 \div 4^2$

b.
$$4^6 \div 4^2$$

____ Ans: Ans:

c.
$$\left(\frac{2}{7}\right)^3 \div \left(\frac{2}{7}\right)^4$$

Ans:

3.3 Fill in the boxes:

a.
$$(4^2)^3 = (4)^{\square}$$

b.
$$\left(\left(\frac{-2}{11} \right)^4 \right)^3 = \left(\frac{-2}{11} \right)^{\square}$$

c.
$$\left(\frac{4}{3}\right)^2 = \frac{4^2}{\Box}$$

d.
$$\left(\left(\frac{-3}{11}\right) \times \left(\frac{-2}{7}\right)\right)^5 = \left(\frac{-3}{11}\right)^{\square} \left(\frac{\square}{\square}\right)^5$$

3.4 Simplify

a.
$$\left((-2) \times \frac{4}{11} \right)$$

b.
$$(4^2)^3$$

Ans: _____

Ans: _____

3.5 Simplify

a.
$$\left(\frac{2}{3}\right)^{-5} = \left(\frac{1}{\boxed{\square}}\right)^{\square}$$
 b.
$$\left(\frac{-4}{5}\right)^{-3} \frac{1}{\boxed{\square}}$$

b.
$$\left(\frac{-4}{5}\right)^{-3} \frac{1}{()}$$

c.
$$\left(\left(\frac{-4}{9}\right) \times \left(\frac{-5}{7}\right)\right)^{-2} = \underline{\qquad} x$$

d.
$$\left(\frac{4}{7}\right)^{-3} \div \left(\frac{4}{7}\right)^{-2}$$
 e. $\left(\left(\frac{-3}{5}\right)^{-2}\right)^{-4}$ f. $\frac{7^5 \times 7^6}{7^3}$

e.
$$\left(\left(\frac{-3}{5}\right)^{-2}\right)^{-4}$$

f.
$$\frac{7^5 \times 7^6}{7^3}$$

Ans: _____ Ans: ____ Ans: ____

g.
$$\left(\frac{2}{3}\right)^5 \times \left(\frac{2}{3}\right)^6 \div \left(\frac{2}{3}\right)^4$$

Ans:

3.6 Write the following numbers in scientific notation:

- 0.45
- b.
- 51000000

Ans: ____ Ans: ____

CHAPTER 4 – VARIATION

4.1	Which of the following is direct variation and which is indirect variation:					
	a. $\begin{array}{c c c c} X & 2 & 7 & 5 \\ \hline Y & 4 & 14 & 10 \end{array}$					
	b. $\begin{array}{c c c c c} X & 3 & 15 & 10 \\ \hline Y & 20 & 4 & 6 \end{array}$					
	Ans:					
4.2	Solve a. A man is working for 5 days for Rs. 400/ How much he will be paid if he works for 8 days.					
	Ans:					
	b. 12 men takes 80 days to dig a well. How many days will 16 mer require to complete the same work.					
	Ans:					
	CHAPTER 5-PERCENTAGE: PAND L					
2.1	If 120 is increased by 5%, then the new number =					
2.2	Find the cost price (C.P.) if selling price (S.P.) is Rs. 141 and loss is 6%.					
	Ans:					
2.3	Sohan saved Rs 630 which is 7% of his salary. What is his salary?					
	Ans:					
	CHAPTER 6 – SIMPLE INTEREST					
6.1	What amount lent out for 3% p.a. would give simple interest of Rs. 36/- after 3 years?					
	Ans:					

6.2	In how many years will the simple interest on a deposit of Rs. 1000/- at 8% p.a. be Rs. 200/- ?
	Ans:
	CHAPTER 7 – DISCOUNT
1.1	A readymade shirt was bought by a customer for Rs. 370/- when shopkeeper allowed a discount of 7.5% on the marked price. Find the marked price.
	Ans:
	ENJOYED? KEEP IT UP?
	CHAPTER 9 – EXPANSION OF ALGEBRAIC EXPRESSIONS
8.1	Simplify
	a. $2a^2 \times 3ab = $ b. $\frac{7 a^2 b}{2} \times \frac{3 ab^2}{7} = $
8.2	Find the product of:
	a. $(X+3)(X-2)$ b. $(3x+3y)(2x-6y)$
	Ans: Ans:
9.3	Expand: $(3x + 4y)^2$
	Ans:
9 4	Evaluate: 105 x 95
	Ans:
9.5	Expand: $\left(\begin{array}{cc} p & -q \\ \hline 4 & -5 \end{array}\right)^2$
	Ans:

9.6	Multiply		
	a. $(8x-3) 2x$	b.	$(-3x^2)(xy^2z-yz^2)$
	Ans:	Ans:	
	СНАРТЕ	R 10 – FACT	ORIZATION
10.1	$X^2 + 3XY - X - 3Y$	10.2	$4a^2 + 20a + 25$
	Ans:	Ans:	
10.3	$9X^2 - 64Y^2$	10.4	$X^4 + X^2Y^2 + Y^4$
	Ans:	Ans:	
10.5	$25x^4 + 9x^2 + 1$ Ans:		
	CHAPTER 11 – LINE	AR EQUATION	ONS IN ONE VARIABLE
11.1	Solve		
	a. $2x - 7 = 5$	b. $\frac{X+}{3}$	$\frac{1}{5} = \frac{2X-1}{5}$
	Ans:	Ans:	· · · · · · · · · · · · · · · · · · ·
	c. $2(x+5) = 5(x-2)$		
	Ans:		
10.2	A father is three times as be as old as his son will b		a. Fifteen years hence the fatehr will eir present age.
	Ans:		
10.3		from the given	mber is three times the one's place number, the result is a number with sed. Find the number.
	Ans:		

YOU HAVE DONE IT !!!
THANK YOU VERY MUCH