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NEW ERA PUBLIC SCHOOL

CLASS: 5th

SUBJECT: MATHS

SOLVED ASSIGNMENT OF UNIT I 2020-21

Exercise:- 1 [Math A] Topic :- NUMBERS

Q.No.1: Round the following numbers:

(a) To the nearest 10

(i) 42 — 40

(ii) 58 — 60

(iii) 112 — 110

(iv) 65 — 70

(b) To the nearest 100

(i) 3,358 — 3,400

(ii) 2,178 — 2,200

(iii) 3,045 — 3,000

(iv) 5,951 — 6,000

(c) To the nearest 1000

(i) 8,400 — 8,000

(ii) 7,898 — 8,000

(iii) 4,046 — 4,000

(iv) 7,121 — 7,000

Q.No.2: Find the greatest and the smallest Four digit numbers.

(a) 9 1 3 2

Greatest Four digit number = 9321

Smallest Four digit number = 1239

(b) 4 7 0 8

Greatest Four digit number = 8740

Smallest Four digit number = 4078

Exercise:- 2 [solve and practice remaining parts yourself].

Q.No.1: Write the number names.

(a) 59,83,172.

Sol:- Fifty nine lakh eighty three thousand one hundred seventy two.

(2)

(c) 26,10,930

sol. Twenty Six lakh ten thousand nine hundred thirty.

(e) 2,05,62,936

sol. Two Crore five lakh sixty two thousand nine hundred thirty Six.

(g) 7,25,01,254.

sol. Seven Crore twenty five lakh one thousand two hundred fifty four.

Q. No. 2: Write the numbers.

(a) Thirteen lakh seventy two thousand Six hundred forty.

sol. 13,72,640

(c) Two Crore four lakh fifty four thousand thirty one.

sol. 2,04,54,031

(e) Three crore fifty one lakh four thousand eight.

sol. 3,51,04,008.

(g) Five Crore Six thousand one.

sol. 5,00,06,001.

Q. No. 3: Insert commas to express the numbers with periods.

(a) 36843252

sol. Cr TL L Th Th H T O

3,68,43,252

(3)

(c) 22098036

sol. Cr TL L Th Th H T O

2, 20, 98, 036

(e) 39792101

sol. Cr TL L Th Th H T O

3, 97, 92, 101

(g) 80010018

sol. Cr TL L Th Th H T O

8, 00, 10, 018

Q. No. 4: Write the place values of the digits in the box.

(a) 5, 96, 83, 213

sol. Place value of 8 = 80,000

(c) 5, 65, 41, 329

sol. Place value of 1 = 1,000

(e) 9, 86, 45, 321

sol. Place value of 6 = 6,00,000

(g) 6, 16, 00, 378

sol. Place value of 6 = 6,00,000.

(i) 8, 75, 45, 332

sol. Place value of 4 = 40,000.

Exercise :- 3Topic :- COMPARISON OF NUMBERSFill in the blanks with the sign
> , = or <.(a) 21,07,318 < 21,08,318(b) 73,18,012 > 72,18,012(c) 30,12,817 < 30,13,817(d) 4,03,21,754 < 4,03,21,854

- (e) 9, 42, 49, 759 $\boxed{<}$ 9, 43, 49, 759 ④
 (f) 3, 20, 24, 834 $\boxed{>}$ 3, 20, 04, 834
 (g) 1, 73, 62, 120 $\boxed{>}$ 1, 73, 62, 020
 (h) 4, 02, 01, 010 $\boxed{>}$ 4, 02, 01, 009
 (i) 6, 12, 41, 113 $\boxed{<}$ 6, 22, 41, 113
 (j) 7, 61, 01, 201 $\boxed{=}$ 7, 61, 01, 201
 (k) 8, 08, 49, 156 $\boxed{<}$ 8, 08, 94, 156

Exercise :- 4 'Topic :- PREDECESSOR AND SUCCESSOR'

Q. No. 1: Write the following numbers.

Predecessor

(a) 36, 79, 499 36, 79, 500

sol. 36, 79, 500

$$\begin{array}{r} - \quad 1 \\ \hline 36, 79, 499 \end{array}$$

Predecessor

(c) 61, 09, 999 61, 10, 000

sol. 61, 10, 000

$$\begin{array}{r} - \quad 1 \\ \hline 61, 09, 999 \end{array}$$

(e) Predecessor

sol. 41, 41, 999 41, 42, 000

$$\begin{array}{r} 41, 42, 000 \\ - \quad 1 \\ \hline 41, 41, 999 \end{array}$$

Predecessor

(g) 72, 45, 199 72, 45, 200

(5)

$$\begin{array}{r}
 \text{sol. } 72,45,200 \\
 \underline{\quad - \quad 1} \\
 72,45,199
 \end{array}$$

(b) Successor

$$\begin{array}{r}
 \text{sol. } 78,16,000 \quad \underline{78,16,001} \\
 78,16,000 \\
 \underline{+ \quad 1} \\
 78,16,001
 \end{array}$$

(d) Successor

$$\begin{array}{r}
 \text{sol. } 30,00,000 \quad \underline{30,00,001} \\
 30,00,000 \\
 \underline{+ \quad 1} \\
 30,00,001
 \end{array}$$

(f) Successor

$$\begin{array}{r}
 \text{sol. } 60,60,000 \quad \underline{60,60,001} \\
 60,60,000 \\
 \underline{+ \quad 1} \\
 60,60,001
 \end{array}$$

(h) Successor

$$\begin{array}{r}
 \text{sol. } 63,41,260 \quad \underline{63,41,261} \\
 63,41,260 \\
 \underline{+ \quad 1} \\
 63,41,261
 \end{array}$$

Q. No. 2: Write the predecessors and Successor of the following numbers.

	Predecessor		Successor ^⑥
(a)	<u>46,59,399</u>	46,59,400	<u>46,59,401</u>
sol.	46,59,400		
	<u>- 1</u>		46,59,400
	<u>46,59,399</u>		<u>+ 1</u>
			<u>46,59,401</u>

	Predecessor		Successor
(b)	<u>76,04,999</u>	76,05,000	<u>76,05,001</u>
sol.	76,05,000		76,05,000
	<u>- 1</u>		<u>+ 1</u>
	<u>76,04,999</u>		<u>76,05,001</u>

	Predecessor		Successor
(c)	<u>92,83,887</u>	92,83,888	<u>92,83,889</u>
sol.	92,83,888		92,83,888
	<u>- 1</u>		<u>+ 1</u>
	<u>92,83,887</u>		<u>92,83,889</u>

	Predecessor		Successor
(d)	<u>99,99,998</u>	99,99,999	<u>1,00,00,000</u>
sol.	99,99,999		99,99,999
	<u>- 1</u>		<u>+ 1</u>
	<u>99,99,998</u>		<u>1,00,00,000</u>

	Predecessor		Successor
(e)	<u>10,10,100</u>	10,10,101	<u>10,10,102</u>
sol.	10,10,101		10,10,101
	<u>- 1</u>		<u>+ 1</u>
	<u>10,10,100</u>		<u>10,10,102</u>

Predecessor

Successor

(4) 69,98,908

69,98,909

69,98,910

sol. 69,98,909

69,98,909

- 1

+ 1

69,98,908

69,98,910

Exercise:- 5

Topic :- "ASCENDING AND DESCENDING SERIES"

Q. No. 1: Arrange the following numbers in ascending and descending order.

(a) 65,68,100 65,76,100 65,67,002

65,76,020

sol. Ascending order:

65,67,002 < 65,68,100 < 65,76,020
< 65,76,100

Descending order:

65,76,100 > 65,76,020 > 65,68,100
> 65,67,002.

(b) 45,84,953 45,84,909 45,84,508
45,84,709

sol. Ascending order:

45,84,508 < 45,84,709 < 45,84,909
< 45,84,953.

Descending order:

45,84,953 > 45,84,909 > 45,84,709
> 45,84,508.

Q. No. 2: Observe the pattern and write the next two numbers.

(a) 1, 67, 00, 182 ; 1, 67, 00, 184 ; ⑧
 1, 67, 00, 186 ; 1, 67, 00, 188 ;
1, 67, 00, 190 .

(b) 78, 68, 000 ; 78, 67, 000 ;
 78, 66, 000 ; 78, 65, 000 ;
78, 64, 000 .

Exercise :- 6

"Topic :- ROMAN NUMBERS"

Q. No. 1: Circle the correct Roman numbers.

(a) 41	<u>XL I</u>	IXL	XIL
(b) 52	ILI	<u>LII</u>	XLXII
(c) 63	VIII	XLIII	<u>LXIII</u>
(d) 74	VIIIV	<u>LXXIV</u>	LXXI
(e) 85	XXCVI	<u>LXXXV</u>	LVXXX
(f) 96	<u>XCVI</u>	LXXXXVI	IXVI
(g) 43	<u>XLIII</u>	IVIII	LXIII
(h) 54	IVL	LVI	<u>LIV</u>
(i) 65	LVX	<u>LXV</u>	VIV
(j) 76	LXIV	<u>LXXVI</u>	XLC
(k) 88	<u>LXXXVIII</u>	XXCVIII	LVIII
(l) 69	VIIIX	LXX	<u>LXIX</u>

Q. No. 2: Write the Hindu-Arabic numbers.

(a) XLIX	49
(b) LXXII	72
(c) LIV	54
(d) LXXX	80
(e) LXII	62
(f) LVII	56

(g) XCV 95

(h) LIX 59

Exercise:- 7

"Topic:→ ROUNGING NUMBERS"

Q.No.1: Round the following numbers to the nearest 100

(a) 8936 — 8900

(b) 2935 — 2900

(c) 1469 — 1500

(d) 327055 — 327100

(e) 55655 — 55700

(f) 46985 — 47000

Q.No.2: Round the following numbers to the nearest 1000.

(a) 94248 — 94000

(b) 102344 — 102000

(c) 368974 — 369000

(d) 641701 — 642000

(e) 219430 — 219000

(f) 963021 — 963000

(g) 983953 — 984000

(h) 983941 — 984000.

Q.No.3: Arrange the digits 2, 3, 4, 6 in such a way that the number becomes 4300 when rounded to the nearest 100. 4326

Exercise:- 85 [Math B]

(10)

Word problems. Topic:- MONEY

Q.No. 1: The cost of 50 bananas is Rs 25.
Find the cost of 5 bananas.

Sol. Total no. of bananas = 50

Cost of 50 bananas = Rs 25.

$\therefore$ Cost of 1 banana = $25 \div 50$

$$50 \overline{) 250} 0.5$$

$$\underline{250}$$

x

Cost of 1 banana = Rs 0.50

$\therefore$ Cost of 5 bananas = 0.50×5

= Rs 2.50

Q.No. 2: The cost of 15 Kg mangoes is Rs 315. Find the cost of 10 Kg mangoes.

Sol. Total mangoes given = 15 Kg.

Cost of 15 Kg mangoes = Rs 315

$\therefore$ Cost of 1 Kg mango = $315 \div 15$

$$15 \overline{) 315} 21$$

$$\underline{30}$$

15

$$\underline{15}$$

x

Cost of 1 Kg mango = Rs 21

$\therefore$ Cost of 10 Kg mangoes = 21×10

= Rs 210

Q.No.3: A car travels 210 Km in 3 hours. (11)

How far does it travel in 30 minutes?

Sol. Total distance covered by a car = 210 Km
210 Km of distance covered in = 3 hours

$\therefore$ Distance covered in 1 hour = $210 \div 3$

$$3 \overline{) 210} 70$$

$$\underline{21}$$

x

Distance covered in 1 hour = 70 Km.

$\therefore$ Distance covered in 30 minutes = $\frac{70}{2}$

2

$$= \frac{70}{2}$$

$$35$$

$$= 35 \text{ Km.}$$

Q.No.4: 135 boys can travel in 3 School buses. How many boys can travel in 7 such buses?

Sol. Total no. of boys given = 135

135 boys can travel in = 3 buses.

$\therefore$ No. of boys that can travel in

1 bus = $135 \div 3$

$$3 \overline{) 135} 45$$

$$\underline{12}$$

$$15$$

$$\underline{15}$$

x

No. of boys that can travel in 1 bus = 45.

$\therefore$ No. of boys that can travel in 7 buses

$$= \frac{45 \times 7}{315}$$

(12)

Q.No. 5: Two buying options are given below. Find the unit price in each case to decide the better option.

(a) Cakes

2 for Rs 180

sol. cost of 2 cakes = Rs 180.

$\therefore$ cost of 1 cake = $180 \div 2$

$$2 \overline{)180} 90$$

$$\underline{18}$$

x

= Rs 90

Cakes

3 for Rs 273

cost of 3 cakes = Rs 273

$\therefore$ cost of 1 cake = $273 \div 3$

$$3 \overline{)273} 91$$

$$\underline{27}$$

3

$$\underline{3}$$

x

= Rs 91

$\therefore$ 2 cakes for Rs 180 is a better buying option.

(b) Oranges

Rs 40 a dozen

sol. cost of 12 oranges = Rs 40

$\therefore$ cost of 1 orange = $40 \div 12$

$$12 \overline{)40} 3.33$$

$$\underline{36}$$

40

36

Oranges

10 for Rs 35

cost of 10 oranges = Rs 35

$\therefore$ cost of 1 orange = $35 \div 10$

$$10 \overline{)35} 3.5$$

$$\underline{30}$$

50

50

$$\begin{array}{r} 40 \\ 36 \\ \hline 4 \end{array}$$

= Rs 3.33

$$\begin{array}{r} \times \\ \hline \end{array} = \text{Rs } 3.50$$

∴ 12 oranges for Rs 40 is a better buying option.

Exercise :- 86

"Topic :- Profit AND Loss"

FORMULA:

(i) $P = S.P. - C.P.$ [S.P. > C.P.]

(ii) $L = C.P. - S.P.$ [S.P. < C.P.]

(iii) $C.P. = S.P. - P$

(iv) $C.P. = S.P. + L$

(v) $S.P. = C.P. + P$

(vi) $S.P. = C.P. - L$

(vii) When C.P. = S.P., there is no profit, no loss.

Q. No. 1: Complete the given table.

C.P. (Rs)	S.P. (Rs)	Loss (Rs)	Profit (Rs)
(a) 200	300	<u>0</u>	<u>100</u>

$$P = S.P. - C.P$$

$$= 300 - 200 = 100$$

(b) 600	600	<u>0</u>	<u>0</u>
When S.P. = C.P., there is no profit, no loss.			

(c) 240.70	204.80	<u>35.90</u>	<u>0</u>
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$$L = C.P. - S.P.$$

$$= 240.70 - 204.80$$

$$= 35.90$$

(d) 160	160	<u>0</u>	<u>0</u>
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When C.P. = S.P., there is no profit, no loss.

$$(e) \quad 180 \quad 172.50 \quad \underline{7.50} \quad \underline{0} \quad (14)$$

$$\begin{aligned} L &= C.P. - S.P. \\ &= 180 - 172.50 \\ &= 7.50 \end{aligned}$$

$$(f) \quad 1080 \quad 1801 \quad \underline{0} \quad \underline{721}$$

$$\begin{aligned} P &= S.P. - C.P. \\ &= 1801 - 1080 \\ &= 721 \end{aligned}$$

$$(g) \quad 550 \quad \underline{510} \quad 40 \quad 0$$

$$\begin{aligned} S.P. &= C.P. - L \\ &= 550 - 40 \\ &= 510 \end{aligned}$$

$$(h) \quad 920 \quad 880 \quad \underline{40} \quad 0$$

$$\begin{aligned} L &= C.P. - S.P. \\ &= 920 - 880 \\ &= 40 \end{aligned}$$

Q.No. 2: Fill in the blanks.

(a) We make a profit when the selling price is more than the cost price.

(b) We incur a loss when the cost price is more than the selling price.

(c) C.P. = Rs 2000, Profit = Rs 200, S.P. = Rs 2200.

(d) C.P. = Rs 560, Loss = Rs 50, S.P. = Rs 510.

(e) S.P. = Rs 1000, C.P. = Rs 992, P = Rs 8.

(f) S.P. = C.P. = Rs 700, Profit or loss = Rs 0.

(g) C.P. = Rs 5000 , Loss = Rs 800 , S.P. = Rs 4200 .

(h) S.P. = Rs 600 , C.P. = Rs 490 , Profit = Rs 110 .

Q.No. 3: Word problems.

(a) Amis bought a toy-gun for Rs 300 and he sold it to his friend for Rs 320. How much is loss or the gain?

Sol. Amis bought a toy-gun for = Rs 300
He sold his toy-gun for = Rs 320
 $\therefore$ Profit made by Amis = S.P. - C.P.
 $= 320 - 300$
 $= \text{Rs } 20$.

$\therefore$ Amis made a profit of = Rs 20

(b) Arun's father bought a Watch for Rs 800 . He made a profit of Rs 32 by selling it to Mahesh's father. For how much did Arun's father sell the Watch?

Sol. Arun's father bought a Watch for
= Rs 800

He made a profit of = Rs 32.

$\therefore$ He sold the Watch for = S.P. + P
 $= 800 + 32$
 $= \text{Rs } 832$

$\therefore$ He sold the Watch for = Rs 832

Q. A computer table was bought for Rs 1060. It was sold at the loss of Rs 60. For how much was the computer table sold?

sol. A computer table was bought for
= Rs 1060

It was sold at the loss of = Rs 60
 $\therefore$ the computer table was sold for =

$$= C.P - L$$

$$= 1060 - 60$$

$$= \text{Rs } 1000$$

$\therefore$ It was sold for = Rs 1000.