NEW ERA PUBLIC SCHOOL (2021)

Subject :- MATHEMATICS "A" CLASS :- 4th

Topic :- DIVIDING A NUMBER BY 10, 100 & 1000

EXERCISE :- 37

Solved Assignment of Unit - III 2021

Exercise :- 37

Write the Quotient and the remainder.

sol 1:- $10\overline{)452}\,45$

40

52

50

2

Q = 45, R = 2.

sol 3:- $100\overline{)8510}\,85$

800

510

500

10

Q = 85, R = 10.

sol 5:- $1000\overline{)4556}\,4$

4000

556

Q = 4, R = 556.

sol 7:- $100\overline{)5768}\,57$

500

768

700

68

Q = 57, R = 68.

sol 9:- $1000\overline{)3897}\,3$

3000

897

Q = 3, R = 897

sol 11:- $100\overline{)5786}\,57$

500

786

700

86

Q = 57, R = 86.

Topic :- Dividing A 4-digit number by A 1-digit number.

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Exercise:- 38

Divide and check your answers.

Sol 1:- $6\overline{)2357}\,392$

18
55
54
17
12
5

check:- Dividend = Quotient × Divisor + Remainder.
= 392 × 6 + 5
= 2352 + 5 = 2357.

Sol 4:- $9\overline{)4865}\,540$

45
36
36
5

check:- D = Q × D + R.
= 540 × 9 + 5 = 4860 + 5 = 4865.

Sol 7:- $9\overline{)8619}\,957$

81
51
45
69
63
6

check:- D = Q × D + R
= 957 × 9 + 6
= 8613 + 6 = 8619.

Sol 10:- $3\overline{)8661}\,2887$

6
26
24
26
24
21
21

check:- D = Q × D + R.
= 2887 × 3 + 0
= 8661.

Sol 13:- $6\overline{)1426}\,237$

12
22
18
46

Sol 16:- $8\overline{)2940}\,367$

24
54
48

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42
4

Check:- D = Q × D + R
= 237 × 6 + 4
= 1422 + 4 = 1426.

Sol 19:- 6 | 2535 | 422
24
13
12
15
12
3

Check:- D = Q × D + R
= 422 × 6 + 3
= 2532 + 3 = 2535.

Sol 25:- 5 | 3093 | 618
30
9
5
43
40
3

Check:- D = Q × D + R.
= 618 × 5 + 3
= 3090 + 3 = 3093

60
56
4

Check:- D = Q × D + R
= 367 × 8 + 4
= 2936 + 4 = 2940.

Sol 22:- 4 | 5678 | 1419
4
16
16
7
4
38
36
2

Check:- D = Q × D + R.
= 1419 × 4 + 2
= 5676 + 2 = 5678.

Sol 28:- 7 | 2349 | 335
21
24
21
39
35
4

Check:- D = Q × D + R.
= 335 × 7 + 4

Sol 31:- 6 | 8949 | 1491

6

29

24

54

54

9

6

3

check:- D = Q × D + R

= 1491 × 6 + 3

= 8946 + 3 = 8949.

Sol 34:- 9 | 1109 | 123

9

20

18

29

27

2

check:- D = Q × D + R

= 123 × 9 + 2

= 1107 + 2 =

= 1109.

Sol 37:- 4 | 6609 | 1652

4

26

24

20

20

9

8

1

check:- D = Q × D + R

= 1652 × 4 + 1

= 6608 + 1 = 6609.

Sol 40:- 3 | 7007 | 2335

6

10

9

10

9

17

15

2

check:- D = Q × D + R

= 2335 × 3 + 2

= 7005 + 2 = 7007.

= 2345 + 4 = 2349.

Exercise:- 39

Divide.

Sol 1:- 20 | 120 | 6

Sol 4:- 20 | 200 | 10

120

sol 7:- 70 | 560 | 8
560

20
0
sol 10:- 30 | 210 | 7
210

sol 13:- 10 | 880 | 88
80
80
80

sol 16:- 80 | 880 | 11
80
80
80

11
sol 19:- 10 | 110 |
10
10
10

Topic:- Dividing a number by a 2-digit number.

Exercise:- 40

Qno.1:- Divide.

sola:- 10 | 91 | 9
90
1

solc:- 41 | 206 | 5
205
1

sole:- 71 | 417 | 5
355
62

solg:- 32 | 758 | 23
64
118
96
22

soli:- 67 | 891 | 13
67
221
201
20

solk:- 45 | 816 | 18
45
366
360
6

Qno.2:- Solve the given word problems.

a:- One pen costs Rs 80. How many such

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pens will cost Rs 960?

Sol:- cost of one pen = Rs 80.

∴ Required number of pens for Rs 960 = Rs $\frac{960}{80}$

80 | 960 | 12
80
160
160

12 pens.

b, The cost of 15 books of the same price is Rs 975. Find the cost of one book.

Sol:- Cost of 15 books = Rs 975.

∴ cost of one book = Rs $\frac{975}{15}$.

15 | 975 | 65
90
75
75

Rs. 65

c, A Train covers 968 km distance in 8 hours. How far will it go in one hour?

Sol:- Distance covered by a Train in 8 hours = 968 km

∴ Distance covered by a Train in 1 hour = $\frac{968}{8}$ km

8 | 968 | 121
8
16
16
8
8

121 km.

d, The product of two numbers is 625. If one of them is 25, find the other number.

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Sol:- Product of two numbers = 625.
One number = 25.
∴ The other no. = $\frac{625}{25}$

$$25\overline{)625}\,(25$$
$$\underline{50}$$
$$125$$
$$\underline{125}$$

25.

c) 799 chairs are kept in 17 equal rows. Find the number of chairs in each row.

Sol:- No. of chairs in 17 rows = 799.
∴ No. of chairs in one row = $\frac{799}{17}$

$$17\overline{)799}\,(47$$
$$\underline{68}$$
$$119$$
$$\underline{119}$$

47 chairs

b) 543 chairs are kept in 10 equal rows. Find the numbers of chairs in each row. How many chairs are left?

Sol:- No. of chairs in 10 rows = 543.
No. of chairs in one row = $\frac{543}{10}$

$$10\overline{)543}\,(54$$
$$\underline{50}$$
$$43$$
$$\underline{40}$$
$$3$$

54 chairs

∴ No. of chairs left = 3.

Topic:- Common Multiples

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Exercise:- 43

Write the multiples of the given numbers and circle the common multiples.

a) 6, 12.

Sol:- Multiples of 6 are 6, (12), 18, (24), 30, (36)

Multiples of 12 are (12), (24), (36), 48, 60, 72.

∴ Common multiples of 6 & 12 are 12, 24 and 36.

b) 2, 5.

Sol:- Multiples of 2 are 2, 4, 6, 8, (10), 12.

Multiples of 5 are 5, (10), 15, 20, 25, 30.

∴ Common multiples of 2 and 5 ~~is~~ 10.

c) 4, 6.

Sol:- Multiples of 4 are 4, 8, (12), 16, 20, (24).

Multiples of 6 are 6, (12), 18, (24), 30, 36.

∴ Common multiples of 4 and 6 are 12 and 24.

d) 10, 12.

Sol:- Multiples of 10 are 10, 20, 30, 40, 50, (60)

Multiples of 12 are 12, 24, 36, 48, (60), 72.

∴ Common multiples of 10 and 12 is 60.

Topic:- Representing multiples on a number line.

Exercise:- 44.

Qno.1:- Find the common multiples of 3 and 6 on the number line.

Sol:- Multiples of 3 are 3, 6, 9, 12, 15, 18, 21, 24, 27, 30.

Multiples of 6 are 6, 12, 18, 24, 30, 36, 42.

∴ Common multiples of 3 and 6 are 6, 12, 18, 24 and 30.

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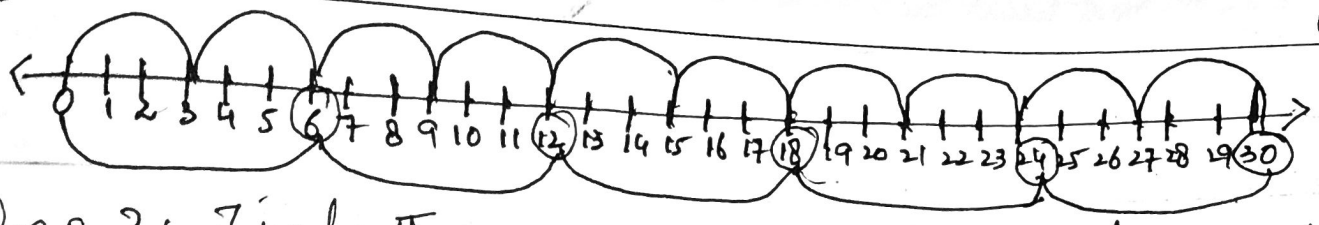
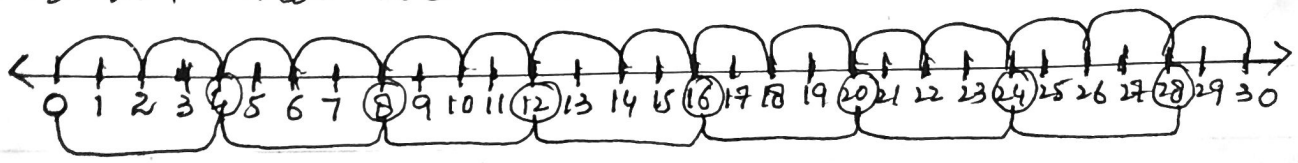


Qno.2:- Find the common multiples of 2 and 4 on the number line.

Sol:- Multiples of 2 are 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30.

Multiples of 4 are 4, 8, 12, 16, 20, 24, 28.

∴ Common multiples of 2 and 4 are 4, 8, 12, 16, 20, 24 and 28.



Exercise:- 45

Qno.2:- Add and state whether the sum is odd or even number?

Sol:- a) $32 + 46 = 78$ Even

b) $41 + 63 = 104$ Even.

c) $88 + 21 = 109$ Odd

d) $36 + 64 = 100$ Even

e) $13 + 15 = 28$ Even.

Topic:- Common factors

Exercise:- 47

Find the factors. Show the common factors on each shaded part.

Sol1:- $1 \times 10 = 10$

$2 \times 5 = 10$

Factors of 10 are 1, 2, 5, 10.

$1 \times 15 = 15$

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$3 \times 5 = 15$

Factors of 15 are 1, 3, 5, 15.

∴ common factors of 10 and 15 = 1, 5.

Sol 2:- $1 \times 12 = 12$

$2 \times 6 = 12$

$3 \times 4 = 12$

Factors of 12 are 1, 2, 3, 4, 6, 12.

$1 \times 16 = 16$

$2 \times 8 = 16$

$4 \times 4 = 16$

Factors of 16 are 1, 2, 4, 8, 16.

∴ common factors of 12 and 16 = 1, 2, 4.

Sol 3:- $1 \times 18 = 18$

$2 \times 9 = 18$

$3 \times 6 = 18$

Factors of 18 are 1, 2, 3, 6, 9, 18.

$1 \times 21 = 21$

$3 \times 7 = 21$

Factors of 21 are 1, 3, 7, 21.

∴ common factors of 18 and 21 = 1, 3.

Mathematics 'B'

Topic:- Expressing time using a.m. and p.m.

Exercise:- 79

Write the time using a.m. or p.m.

Sol 1:- 9:15 p.m.	Sol 2:- 6:45 p.m.	Sol 3:- 5:50 a.m.
Sol 4:- 2:02 p.m.	Sol 5:- 6:05 a.m.	Sol 6:- 9:25 a.m.
Sol 7:- 11:20 p.m.	Sol 8:- 12:00	

(P. T. O.)

Topic:- **Time Duration**

Exercise:-80

Qno.1:- Lata plays from 4:30 p.m. To 6:30 p.m. How long does Lata play?

Sol:- Lata played from = 4:30 p.m. To 6:30 p.m.

∴ Time taken =

Hrs	min
6	30
−4	30
2	00

2 hours.

Qno.2:- Jarun leaves for his school at 7:45 a.m. and reaches school at 8:15 a.m. How long does Jarun take to reach the school?

Sol:- Jarun left for his school at = 7:45 a.m.

He reached school at = 8:15 a.m.

∴ Time taken to reached the school =

Hrs	min
8	15
−7	45

=

Hrs	min
7	75
−7	45
0	30

30 min

Qno.3:- Monu takes 1 hour 30 minutes to paint the fence. If he starts painting at 4:00 p.m., at what time he completes the painting?

Sol:- Time taken to paint the fence = 1hr 30min.

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Monu started painting at = 4:00 p.m.
∴ He completed the painting at = Hrs min

4	00
+1	30
5	30

5:30 p.m.

Qno. 4:- Meeta is ill. Her doctor asked her to take orange juice after every 20 minutes. She took her juice first at 6:00 p.m and then at 6:20 p.m. At what time will she take her third glass of juice?
Sol:- Meeta took her juice first at = 6:00 p.m.
She took 2nd glass of juice at = 6:20 p.m.
∴ She took her third glass of juice at = Hrs min

6	20
+	20
6	40

6:40 p.m.

Qno.5:- The time is 7:15 in the evening. Sonu's father promised him to give an ice cream just after 1 hour 20 minutes. At what time will Sonu get his ice cream?
Sol:- At 7:15 p.m Sonu's father promised him to give an ice cream just after = 1 hour 20 min.
∴ Sonu got his ice cream at = Hrs min

7	15
+1	20
8	35

8:35 p.m.

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Exercise :- 81

Qno.1:- Rajan's school begins at 8:30 a.m. but he reaches his school at 8:10 a.m. How early does Rajan reach to his school?

Sol:- Rajan's school began at = 8:30 a.m.
He reached his school at = 8:10 a.m.
∴ He reached to his school early =

Hrs	min
8	30
− 8	10
	20

20 min

Qno.2:- Simran got into the bus at 10:35 a.m. and reached her destination at 3:05 p.m. How long was Simran's bus journey?

Sol:- Simran got into the bus at = 10:35 a.m.
He reached her destination at = 3:05 p.m.
∴ Simran's bus journeyed for =

Hrs	min
12	00
+ 3	05
15	05

Hrs	min
15	05
− 10	35
=	

Hrs	min
14	65
− 10	35
4	30

4 hrs 30 min

Qno.3:- Complete the table given below.

Sol a:- 9 hrs Sol b:- 12 hrs Sol 3:- 5 hrs.

sold:- 7 hrs sole:- 9 hrs solf:- 5 hrs.

Qno.4:- Saba and kaif watched a cartoon show which started at 7:15 p.m. The show ended just after 30 minutes. what time did the show end?

Sol:- A cartoon show started at = 7:15 p.m.

It ended just after = 30 min

∴ The show ended at = Hrs min

7 : 15

+ 30

7 : 45

7:45 p.m.

Qno.5:- Write the time using p.m. or a.m.

a, 5 minutes after 12:00 noon?

sol:- Hrs min

12 : 00

+ 05

12 : 05 12:05 p.m.

b, 5 minutes before 12:00 noon?

sol:- Hrs min

12 : 00

− : 05 =

Hrs min

11 : 60

− : 05

11 : 55 11:55 a.m.

Qno.6:- Manpreet's school starts at 7:45 a.m. but he reaches school at 8:01 a.m. How late does Manpreet reach to his school?

Sol:- Manpreet's school started at = 7:45 a.m.
He reached school at = 8:01 a.m.
∴ Manpreet reached to his school late = Hrs min

$$\begin{array}{r} 8:01 \\ -\ 7:45 \\ \hline \end{array} =$$

Hrs min

$$\begin{array}{r} 7:61 \\ -\ 7:45 \\ \hline 16 \end{array}$$

16 min

Qno.7:- Chinmay waited for his friend from quarter to five until five past five. How long did he wait?
Sol:- Chinmay waited for his friend? from = 4:45 to 5:05.
∴ He waited for = Hrs min

$$\begin{array}{r} 5:05 \\ -\ 4:45 \\ \hline \end{array} =$$

Hrs min

$$\begin{array}{r} 4:65 \\ -\ 4:45 \\ \hline 20 \end{array}$$

20 min.

Qno.8:- Amit reaches to Agra at 2:30 p.m. He stays there for 12 hours 30 minutes. What time does he leave from Agra?
Sol:- Amit reached Agra at = 2:30 p.m.
He stayed there for = 12 hrs 30 min.
∴ He left from Agra at =

Hrs	min
12	: 30
+ 2	: 30
14	: 60

14 hrs 60 min.
60 min = 1 hour
14 hrs + 1 hour = 15 hrs.

Hrs	min
15	: 00
− 12	: 00
3	: 00

3:00 a.m.

Topic:- Years, Months, Weeks and Days

Exercise:- 8.2

Q no.1:- Convert years into weeks and days.

Sol:- 2 years.

1 year = 52 weeks
2 yrs = 2 × 52 = 104 weeks
1 year = 365 days
2 yrs = 2 × 365 = 730 days.

Sol:- 4 years

1 year = 52 weeks
4 yrs = 4 × 52 = 208 weeks.
1 year = 365 days
4 yrs = 4 × 365 = 1460

Sol:- 6 years

1 year = 52 weeks
6 yrs = 6 × 52 = 312 weeks

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1 year = 365 days
6 yrs = 6 × 365 = 2190 days.

Sol:- 8 years
1 year = 52 weeks
8 yrs = 8 × 52 = 416 weeks
1 year = 365 days
8 yrs = 8 × 365 = 2920 days.

Sol:- 10 years
1 year = 52 weeks
10 yrs = 10 × 52 = 520 weeks
1 year = 365 days.
10 yrs = 10 × 365 = 3650 days.

Sol:- 20 years
1 year = 52 weeks
20 yrs = 20 × 52 = 1040 weeks
1 year = 365 days
20 yrs = 20 × 365 = 7300 days.

Qno. 2:- complete the Tables.

sol a:-

Years	Decades
20	2
40	4
80	8

sol b:-

Decades	Years
3	30
6	60
11	110

(P.T.O.)

Topic:- Conversion of Time

Exercise:- 83

Qno.1:- Find the number of weeks.

Sol:- 21 days.

7 days = 1 week.

∴ 21 days = $\frac{21}{7}$

7|21|3

21

3 weeks.

Sol:- 42 days.

7 days = 1 week

∴ 42 days = $\frac{42}{7}$

7|42|6

42

6 weeks.

Sol:- 175 days

7 days = 1 week

∴ 175 days = $\frac{175}{7}$

7|175|25

14

35

35

25 weeks.

Sol:- 147 days.

7 days = 1 week.

∴ 147 days = $\frac{147}{7}$

7|147|21

14

7

7

21 weeks

Sol:- 308 days.

7 days = 1 week.

∴ 308 days = $\frac{308}{7}$

7|308|44

28

28

28

44 weeks.

Sol:- 420 days.

7 days = 1 week.

∴ 420 days = $\frac{420}{7}$

7|420|60

42

0

60 weeks.

Sol:- 749 days

7 days = 1 week.

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$\therefore$ 749 days $= \frac{749}{7}$

7 | 749 | 107
7
—
49
49
—

107 weeks.

Q no. 2:- Convert years into months.

Sol:- 6 years

1 year = 12 months

$\therefore$ 6 yrs = 6 × 12 = 72 months

Sol:- 3 years.

1 year = 12 months

$\therefore$ 3 yrs = 3 × 12 = 36 months

Sol:- 8 years

1 year = 12 months

$\therefore$ 8 years = 8 × 12 = 96 months

Sol:- 12 years

1 year = 12 months

$\therefore$ 12 yrs = 12 × 12 = 144 months

Sol:- 14 years.

1 year = 12 months

$\therefore$ 14 yrs = 14 × 12 = 168 months

Sol:- 15 years

1 year = 12 months

$\therefore$ 15 yrs = 15 × 12 = 180 months

Sol:- 25 years

1 year = 12 months

$\therefore$ 25 yrs = 25 × 12 = 300 months

Sol:- 27 years

1 year = 12 months

$\therefore$ 27 yrs = 27 × 12 = 324 months

Convert months into years.

Sol:- 36 months

12 months = 1 year

$\therefore$ 36 months $= \frac{36}{12}$

12 | 36 | 3
36

3 years

Sol:- 72 months

12 months = 1 year

$\therefore$ 72 months $= \frac{72}{12}$

12 | 72 | 6
72

6 years.

(P.T.O.)

Sol:- 84 months

12 months = 1 year

∴ 84 months = $\frac{84}{12}$

$12\overline{)84}\,|\,7$

84

7 years

Sol:- 120 months

12 months = 1 year

∴ 120 months = $\frac{120}{12}$

$12\overline{)120}\,|\,10$

12

0

10 yrs.

Sol:- 288 months

12 months = 1 year

∴ 288 months = $\frac{288}{12}$

$12\overline{)288}\,|\,24$

24

48

48

24 yrs.

Sol:- 24 months

12 months = 1 year

∴ 24 months = $\frac{24}{12}$

$12\overline{)24}\,|\,2$

24

2 yrs.

Sol:- 180 months

12 months = 1 year

∴ 180 months = $\frac{180}{12}$

$12\overline{)180}\,|\,15$

12

60

60

15 yrs.

Sol:- 396 months

12 months = 1 year

∴ 396 months = $\frac{396}{12}$

$12\overline{)396}\,|\,33$

36

36

36

33 yrs.
