MONTH : JANUARY

SESSION : 7

CLASS :V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 20

CHAPTER NAME : TIME

SUB-TOPIC : CONVERSION OF UNITS OF TIME.

EXERCISE 20 A

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LEARNING OBJECTIVE :

Enable learners :

- **To know about the time and conversion of the units.**

TIME

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To Measure Time We Use Various Units Such As Seconds, Minutes, Hours , Days, Weeks, Months, Years Etc.

DO YOU REMEMBER?

1 Year = 365 / 366 (if its leap year) days.

1 month = 30 / 31 (except February) days

1 week = 7 days

1 day = 24 hours

1 hour = 60 minutes

1 minute = 60 seconds

1 year = 12 months

December
October
August
July
May
March
January
November
September
June
April
February
28/29

Conversion of units of time.

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When we convert greater units to smaller units we MULTIPLY.

Conversion of minutes into seconds.

Convert 8 min 14 sec into seconds

1 m = 60 sec

8 m 14 sec = 8 x 60 + 14

= 480 + 14 = **494 sec**

Conversion of hours into minutes

Convert 9 hr 25 min into minutes.

1 hr = 60 min

9 hr 25 min = 9 x 60 + 25

= 540 + 25 = **565 min.**

Conversion of units of time.

When we convert smaller units to greater units we DIVIDE

Conversion of seconds into minutes.

Convert 772 sec into minutes

60 sec = 1 m

772 sec = 772 ÷ 60

= 12 min 52 sec

```
      1 2
60 | 7 7 2
   - 6 0
     1 7 2
   - 1 2 0
       5 2
```

Conversion of days to weeks

Convert 312 days into week

7 days = 1 week

312 days = 312 ÷ 7

= 44 weeks 4 days

```
      4 4
7 | 3 1 2
  - 2 8
    3 2
  - 2 8
      4
```

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1. CONVERT

a. 15 hrs into minutes

1 hr = 60 min

15 hr = 15 x 60 = **900 min**

b. 9 hr 56 min into minutes

1 hr = 60 min

9 hr 56 min = 9 x 60 + 56 =

540 + 56= **596 min**

c. 36 min into sec

1 min = 60 sec

36 min = 36 x 60 = **2160 sec**

d. 12 min 28 sec into seconds

1 min = 60 sec

12 min 28 s = 12 x 60 + 28 =

720 + 28= **748 sec**

e. 5 days into hours

1 day = 24 hrs

5 days = 5 x 24

= 120 hrs.

f. 12 days 9 hrs into hours

1 day = 24 hr

12 day 9 hr = 12 x 24 + 9=

288 + 9 = **297 hrs**

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2. Convert

a. 5 yrs 9 months into months

1 year = 12 months

5 yrs 9 month = 5 x 12 + 9 =

60 + 9 = **69 months**

b. 9 weeks into days

1 week = 7 days

9 weeks = 9 x 7 = **63 days**

c. 12 weeks 15 days into days

1 week = 7 days

12 week 15 days =12 x 7 + 15 =

84 + 15 = **99 days**

d. 7 weeks into hours

1 week = 7 days

7 week = 7 x 7 = **49 days**

1 day = 24 hr

49 days = 49 x 24

1176 hours

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3. CONVERT :

a. 1 day into seconds

1 day = 24 hrs

1 hr = 60 min

24 hrs = 24 x 60 = **1440 min**

1 min = 60 sec

1440 min = 1440 x 60 = **86400 sec**

b. 5 weeks into sec.

1 week = 7

5 week = 5 x 7 = **35 days**

1 day = 24 hrs

35 days = 35 x 24 = **840 hrs**

1 hr = 60 min

840 hrs = 840 x 60 = **50400 min**

1 min = 60 sec

50400 min = 50400 x 60 = **3024000 sec**

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c. 2 months into seconds

1 month = 30 days

2 months = 30 x 2 = **60 days**

1 day = 24 hrs

60 days = 60 x 24 = **1440 hrs**

1 hr = 60 min

1440 hrs =1440 x 60 = **86400 min**

1 min = 60 sec

86400 min =86400 x 60 = **5184000 sec**

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Complete Exercise 20 A in the copy.

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Students are able:

- To know about the time and conversion of the units.

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THANKING YOU

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