

Class:4

Subject : Mathematics

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Date:13/8/2020

Revision sheet solution part 2 Chapter: Eleven

Time

1. Express in seconds.

(a) Solution: We know, 1 hour = 60 minutes.

Again, we know, 1 minute = 60 seconds.

Now, $60 \text{ minutes} = (60 \times 60) \text{ seconds}.$

= 3600 seconds.

Ans: 3600 seconds.

(b) Solution: We know, 1 minutes = 60 seconds.

Now, 4 minutes = (60×4) seconds.

= 240 seconds.

Ans: 240 seconds.

(c) <u>Solution</u>: We know, 1 minutes = 60 seconds.

Now, 12 minutes = (60×12) seconds.

= 720 seconds.

Ans: 720 seconds.

(d) Solution: We know, 1 minutes = 60 seconds.

Now, 20 minutes = (60×20) seconds.

= 1200 seconds.

Ans: 1200 seconds.

- 2. Express in minutes.
 - (a) Solution: We know, 1 day = 24 hours

Again, we know, 1 hour = 60 minutes.

Now, 24 hours = (60×24) minutes

= 1440 minutes.

Ans: 1440 minutes.

(b) Solution: We know, 1 week = 7 days.

Again, we know, 1 day = 24 hours.

7 days =
$$(24 \times 7)$$
 hours.

= 168 hours.

Again, we know, 1 hour = 60 minutes

Now, 168 hours = (168×60) minutes.

= 10080 minutes.

Ans: 10080 minutes.

3. Express in hours.

(a) Solution: We know, 1 day = 24 hours.

Now, 5 days =
$$(24 \times 5)$$
 hours.
=120 hours.

Ans: 120 hours.

(b) Solution: We know, 1 week = 7 days.

Again, We know,
$$1 \text{ day} = 24 \text{ hours}$$
.

7 days =
$$(7 \times 24)$$
 hours.

= 168 hours

Ans: 168 hours.

(c) Solution: 6 weeks and 3 days = (6×7) days + 3 days

$$= 42 \text{ days} + 3 \text{ days}$$

We know, 1 week = 7 days $6 \text{ weeks} = (6 \times 7) = 42 \text{ days}$

= 45 days

We know, 1 day = 24 hours

$$45 \text{ days} = (45 \times 24) \text{ hours}$$

= 1089 hours

Ans: 1089 hours.

4. Express in days.

(a) Solution: we know, 1 week = 7 days

$$6 weeks = (6 \times 7) days$$
$$= 42 days$$

Ans: 42 days.

(b) Solution: we know, 1 week = 7 days

3 weeks =
$$(3 \times 7)$$
 days
= 21 days

Ans: 21 days.

(c) Solution: we know, 24 hours = 1 day

1 hour =
$$\frac{1}{24}$$
 day | R.w: (1÷24)

Now, 24 hours =
$$\frac{1 \times 24^{-1}}{24_{-1}}$$
 days
$$R.W: \frac{24}{24} = \frac{\overline{24})24}{0}$$

$$= 1 day$$

$$24 \times 4 = 96, \ 24 \times 5 = 120$$

Ans: 1 day.

(d) Solution: we know, 24 hours = 1 day

1 hour =
$$\frac{1}{24}$$
 day | R.w: (1÷24)

Now, 120 hours =
$$\frac{1 \times 120^{-5}}{24_{-1}}$$
 days
$$= 5 \text{ days}$$
R.W: $\frac{120}{24} = \frac{24}{120}$
0
$$24 \times 1 = 24, 24 \times 2 = 48, 24 \times 3 = 72,$$

$$24 \times 4 = 96, 24 \times 5 = 120$$

Ans: 5 days.

- 5. Add together and change them to hours and minutes.
 - (a) Solution: 50 minutes+30 minutes = 80 minutes

We know, 1hour =60 minutes.

So, 80 minutes = 60 minutes + 20 minutes

=1 hour +20 minutes

Ans: 80 minutes and 1 hour + 20 minutes.

(b) Solution: 60 minutes+70 minutes = 130 minutes

We know, 1hour =60 minutes.

So, 130 minutes= 60 minutes+60 minutes+10 minutes

=1 hour + 1 hour + 10 minutes

= 2 hours + 10 minutes

Ans: 130 minutes and 2 hours + 10 minutes.

(a) Solution: 100 minutes+20 minutes = 120 minutes

We know, 1hour =60 minutes.

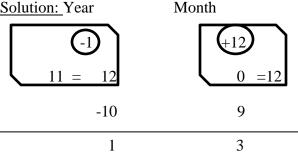
=1 hour + 1 hour

=2 hours

Ans: 120 minutes and 2 hours.

Word problem:





[month]

0-9, it is impossible so move at first 1 year=12 months and 12 months is adding with 0 months (12+0)=12 and subtract 9 from 12.(12-9)=3

[year] Here, 12 years but 1 year=12 months,

So, subtract 1 from 12.(12-1)= 11.Now,

Ans: The difference is 1 year and 3 months.

11-10=1

2. Solution: Masuda Begum gets leave =3 months 3 weeks 12 days

 $= 3 \text{ months} + (3 \times 7 + 12) \text{ days}$ [1week=7days]

=3 months 33 days [1 month=30 days]

= 4 months 3 days

Masuda Begum took leave =2 months 4 weeks 3 days

= $2 \text{ months} + (4 \times 7 + 3) \text{ days}$ [1week=7days]

=2 months 31 days [1 month=30 days]

= 3 months 1 day

Months	Days
4	3
- 3	1
1	2

Now, 1 month 2 days = (30+2)=32 days [1 month=30 days]

Ans: 32 days leave she can take more.

3. Solution:

(1)

Solution:	Hour	Minute	Second
2		15-1	25 +60
- 2		2	57
		12	28

[second] 25-57 is impossible, so move 1 minute=60 seconds (60+25)=85 and

subtract 57 from 85.

(85-57)=28

[minute] 1 minute=60seconds

So,15-1=14 and subtract 2

From 14.(14-2)=12

Ans: The difference 12 minutes 28 seconds .

(2)

Solution: hour	minute	second
2	2	57
+ 2	15	25
4	18	22

[hour] 2-2=0

[second]57+25=82 =60+22, so 60 carries 1 minute.so

putting 22 Seconds and

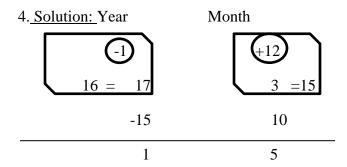
caring 1 minute.

[minute] In caring 1 minute is added with 2(2+1)=3.Now,

(3+15)=18.

[hour]2+2=4

Ans: 4hours 18 minutes 22 seconds



[month]
3-10, it is impossible so move at first
1 year=12 months and 12 months is
adding with 3 months (12+3)=15 and
subtract 10 from 15.(15-10)=5

[year] Here, 17 years but 1 year=12 months, So,subtract 1 from 17.(17-1)= 16.Now,

Ans: The difference is 1 year and 5 months.

16-15=1