

# Time

## Exercise 20(A)

1) Convert

a) 15 hours into minutes

$$1 \text{ hour} = 60 \text{ min}$$

$$60 \times 15 = 900 \text{ minutes}$$

$$15 \text{ hours} = \underline{900 \text{ min}}$$

b) 9 hours 56 minutes

into minutes

$$1 \text{ hour} = 60 \text{ min}$$

$$9 \times 60 + 56 = \underline{596 \text{ min}}$$

c) 36 minutes into seconds

$$1 \text{ minute} = 60 \text{ sec}$$

$$36 \text{ minute} = 36 \times 60$$

$$= \underline{2160 \text{ sec}}$$

d) 12 min 28 sec into sec

$$1 \text{ min} = 60 \text{ sec}$$

$$12 \text{ min} = 60 \times 12 =$$

$$720 + 28 = \underline{748 \text{ sec}}$$

e) 5 days into hrs

$$1 \text{ day} = 24 \text{ hrs}$$

$$5 \text{ days} = 24 \times 5 = \underline{120 \text{ hrs}}$$

f) 12 days 9 hrs into hrs g) 11 hrs 45 min into min

1 day = 24 hrs

1 hrs = 60 min

12 days =  $288 + 9$

11 hrs =  $660 + 45 =$

= 297 hrs

= 705 min

2) Convert

a) 5 yrs 9 months into months b) 9 weeks into days

1 year = 12 months

1 week = 7 days

5 yrs = 60 months +

9 weeks = 63 days

9 months = 69 months

c) 2 weeks 15 days into d) 7 week into hrs

days

1 week = 7 days

1 week = 7 days

$7 \times 7 = 49$  day

2 week =  $84 + 15$

1 day = 24 hrs

99 days

49 day = 1176 hrs

e) 12 hrs into hrs f) 2 yrs into men

1 week = 7 days      1 yrs = 12 men

12 x 7 = 84 days      2 yrs = 24 + 10 = 34

1 day = 24 hrs

84 days = 2016 + 0 =

2016 hrs

g) 3 days 5 hrs 30 min into min

1 day = 24 hrs      1 hrs = 60 min

3 day = 72 hrs      72 hrs = 4320 + 30 =

4350 min

3) Convert

a) 1 day into sec

1 day = 24 hours      1 hour = 60 min

24 hours = 1440 min    1 min = 60 sec

$1440 \times 60 = 86400 \text{ sec}$

5 weeks into sec.

1 week = 7 days & 1 day = 24 hrs

5 week = 35 days    35 days = 840 hrs

1 hour = 60 min    1 min = 60 sec

840 hrs = 50400 min    50400 min = 3024000 sec

2 men into sec

1 man = 30 day    1 day = 24 hrs

2 men = 60 day    60 day = 1440 hrs

1 hr = 60 min    1 min = 60 sec

1400 hrs = 86400 min    86400 min = 5184000 sec

### 4) Convert

a) 812 sec into min and sec

$$60 \text{ sec} = 1 \text{ min}$$

$$812 \text{ sec} = \underline{13 \text{ min } 32 \text{ sec}}$$

b) 924 min into hrs and min

$$60 \text{ min} = 1 \text{ hrs}$$

$$924 \text{ min} = \underline{15 \text{ hrs } 24 \text{ min}}$$

c) 105 hrs into days and hrs

$$24 \text{ hrs} = 1 \text{ day}$$

$$105 \text{ hrs} = \underline{4 \text{ days } 9 \text{ hrs}}$$

d) 745 hrs into days and hrs

$$24 \text{ hrs} = 1 \text{ day}$$

$$745 \text{ hrs} = \underline{31 \text{ days } 5 \text{ hrs}}$$

4) 1024 min into hrs and min

$$60 \text{ min} = 1 \text{ hr}$$

$$1024 = \underline{12 \text{ hrs } 4 \text{ min}}$$

5) Convert

a) 512 day into wks. and days      b) 385 day into wks and day

$$7 \text{ day} = 1 \text{ week} \quad \text{day}$$

$$512 = \underline{74 \text{ weeks } 4 \text{ days}} \quad 7 \text{ day} = 1 \text{ week}$$

$$385 = \underline{55 \text{ weeks}}$$

c) 52 months into yrs and      d) 86 months into yrs and

mon

mon

$$12 \text{ mon} = 1 \text{ yrs}$$

$$12 \text{ mon} = 1 \text{ yrs}$$

$$52 \text{ mon} = 4 \text{ yrs } 4 \text{ day}$$

$$86 \text{ mon} = 7 \text{ yrs } 2 \text{ mon}$$

c) 342 days into mon and day) 284 days into mon and day

30 days = 1 month      30 days = 1 month

342 days = 11 months  
12 days      284 days = 28 months and 4 days

6) Convert

a) 16 hrs 600 sec into min

1 hour = 60 min      60 sec = 1 min

16 hrs = 960 min      600 sec = 10 min

960 + 10 = 970 min

b) 9 hrs 360 sec into min

1 hour = 60 min      60 sec = 1 min

9 hours = 540 min      360 sec = 6 min

540 + 6 = 546 min

2) 2 days 180 min into hrs

$$1 \text{ day} = 24 \text{ hrs}$$

$$60 \text{ min} = 1 \text{ hour}$$

$$2 \text{ days} = 48 \text{ hrs}$$

$$180 \text{ min} = 3 \text{ hours}$$

$$48 + 3 = \underline{51 \text{ hours}}$$

3) 9 days 420 min into hrs

$$1 \text{ day} = 24 \text{ hrs}$$

$$60 \text{ min} = 1 \text{ hrs}$$

$$9 \text{ days} = 216 \text{ hrs}$$

$$420 \text{ min} = 7 \text{ hrs}$$

$$216 + 7 = \underline{223 \text{ hrs}}$$