

HW  
13.1.22

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### Ex 20 (A)

4. Convert:

a. 812 seconds into minutes and seconds.

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

$$812 \text{ second} = 812 \div 60 = 13 \text{ min } 32 \text{ sec}$$

b. 924 minutes into hours and minutes.

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

$$924 \text{ min} = 924 \div 60 = 15 \text{ hrs } 24 \text{ min}$$

c. 105 hours into days and hours.

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

$$105 \text{ hrs} = 105 \div 24 = 4 \text{ days } 9 \text{ hrs.}$$

d. 745 hours into days and hours.

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

$$745 \text{ hrs} = 745 \div 24 = 31 \text{ days } 1 \text{ hrs.}$$

e. 1024 minutes into ~~hr~~ hours and minutes

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

$$1024 \text{ min} = 1024 \div 60 = 17 \text{ hrs } 4 \text{ min}$$

5. Convert:

a. 512 day into weeks and ~~hr~~ days.

$$1 \text{ weeks} = 7 \text{ days}$$

$$512 \text{ days} = 512 \div 7 = 73 \text{ weeks } 1 \text{ days}$$

b. 365 days into weeks and days.

$$1 \text{ weeks} = 7 \text{ days}$$

$$365 \text{ days} = 365 \div 7 = 52 \text{ weeks } 1 \text{ day}$$

c. 52 months into years and months

$$1 \text{ year} = 12 \text{ month}$$

$$52 \text{ month} = 52 \div 12 = 4 \text{ years } 4 \text{ months}$$

d. 86 months into years and months.

$$1 \text{ year} = 12 \text{ month}$$

$$86 \text{ months} = 86 \div 12 = 7 \text{ years } 2 \text{ months}$$

e. 342 days into months and days.

$$1 \text{ months} = 30 \text{ day}$$

$$342 \text{ days} = 342 \div 30 = 11 \text{ month } 12 \text{ days}$$

f. 784 days into months and days

$$1 \text{ months} = 30 \text{ days}$$

$$784 \text{ days} = 784 \div 30 = 26 \text{ month } 4 \text{ day}$$

6. Convert

a. 16 hours 600 seconds into minutes

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

$$16 \text{ hrs} = 16 \times 60 = 960 \text{ min}$$

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

$$600 \text{ sec} = 600 \div 60 = 10 \text{ min}$$

$$\text{So, } 960 \text{ min} + 10 \text{ min} = 970 \text{ min}$$

b. 9 hours 360 seconds into minutes

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

$$9 \text{ hrs} = 9 \times 60 = 540 \text{ mins}$$

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

$$360 \text{ sec} = 360 \div 60 = 6 \text{ mins}$$

$$\text{So, } 540 \text{ mins} + 6 \text{ mins} = 546 \text{ mins}$$

c. 2 day 180 min into hrs

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

$$2 \text{ day} = 24 \times 2 = 48 \text{ hrs}$$

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

$$180 \text{ min} = 180 \div 60 = 3 \text{ hrs}$$

$$\text{So, } 48 \text{ hrs} + 3 \text{ hrs} = 51 \text{ hrs}$$

d. 9 days 420 minutes into hours

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

$$9 \text{ days} = 9 \times 24 = 216 \text{ hrs}$$

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

$$420 \text{ min} = 420 \div 60 = 7 \text{ hrs}$$

$$\text{So, } 216 \text{ hrs} + 7 \text{ hrs} = 223 \text{ hrs}$$