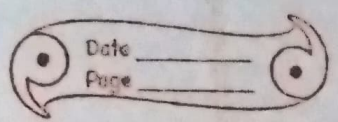


C.W
14/1/22
Friday
Q1a. 1

Exercise 20(A)



a) 15 hours into minutes.

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

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

~~a)~~

b) 9 hours 56 minutes into minutes

$$= 9 \text{ hours} + 56 \text{ minutes}$$

$$= (9 \times 60) \text{ minutes} + 56 \text{ minutes}$$

$$= 540 \text{ minutes} + 56 \text{ minutes}$$

$$= 596 \text{ minutes}$$

c) 36 minutes into seconds

$$1 \text{ minutes} = 60 \text{ seconds}$$

$$36 \text{ minutes} = 36 \times 60 = 2160$$

minutes

d) 12 minutes 28 seconds

into seconds

$$= 12 \text{ minutes} + 28 \text{ seconds}$$

$$= (12 \times 60) \text{ seconds} + 28 \text{ seconds}$$

$$= 720 \text{ seconds} + 28 \text{ seconds}$$

$$= 748 \text{ seconds}$$

e) 5 days into hours

$$1 \text{ days} = 24 \text{ hours}$$

$$24 \cdot 5 \text{ days} = 5 \times 24 = 120 \text{ hours}$$

f) 12 days 9 hours into hours

$$= 12 \text{ days} + 9 \text{ hours}$$

$$= (12 \times 24) \text{ hours} + 9 \text{ hours}$$

$$= 288 \text{ hours} + 9 \text{ hours}$$

$$= 297 \text{ hours}$$

g) 11 hours 45 minutes into minutes

$$= 11 \text{ minutes} + 45 \text{ minutes}$$

$$= (11 \times 60) \text{ minutes} + 45 \text{ minutes}$$

$$= 660 \text{ minutes} + 45 \text{ minutes}$$

$$= 705 \text{ minutes}$$

2.

a) 5 years 9 months into months

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

$$\equiv 5 \text{ years} + 9 \text{ months}$$

$$\equiv (5 \times 12) \text{ months} + 9 \text{ months}$$

$$\equiv \cancel{60 \text{ years}} + 9$$

$$= 60 \text{ months} + 9 \text{ months}$$

$$\equiv 69 \text{ months}$$

b) 9 weeks into days

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

$$9 \text{ weeks} = 9 \times 7 = 63 \text{ days}$$

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c) 12 weeks + 25 days into days

$$= 12 \text{ weeks} + 25 \text{ days}$$

$$= (12 \times 7) \text{ weeks} + 25 \text{ days}$$

$$= 84 \text{ days} + 25 \text{ days}$$

$$= 99 \text{ days}$$

d) 7 weeks into hours

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

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

$$7 \text{ days} = 24 \times 7 = 168 \text{ hours}$$

$$7 \text{ weeks} = 168 \times 7 = 1176 \text{ hours}$$

e) 12 weeks 10 hours into
hours

$$1 \text{ week} = 168 \text{ hours}$$

12 weeks + 10 hours

$$= (12 \times 168) + 10 \text{ hours}$$

$$= 2016 \text{ hours} + 10 \text{ hours}$$

$$= 2026 \text{ hours}$$

f) 2 years 10 months into
months

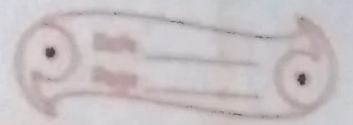
$$= 1 \text{ year} = 12 \text{ months}$$

2 years + 10 months

$$= (2 \times 12) + 10 \text{ months}$$

$$= 24 + 10 \text{ months} = 34 \text{ months}$$

26/12/22
Sunday



3.

a) 1 day into second

$$1 \text{ hour} = 60 \times 60 = 3600 \text{ second}$$

24 hours of

$$1 \text{ day} = 3600 \times 24 = 86400 \text{ second}$$

$$\therefore 1 \text{ day} = 86,400 \text{ seconds}$$

b) 1 week = 7 days

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

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

$$\text{So, } 1 \text{ hour} = 60 \times 60 = 3600 \text{ second}$$

$$1 \text{ day} = 3600 \times 24 = 86400 \text{ second}$$

$$1 \text{ week} = 86,400 \times 7 = 604,800 \text{ second}$$

$$5 \text{ week} = 604,800 \times 5 = 3,024,000 \text{ second}$$

C) 2 month into seconds

2 month = 60 days

1 day = 24 hour

1 hour = 60 minutes

1 minutes = 60 second

1 minute = $60 \times 60 = 3600$ seconds

1 hour = $3600 \times 24 = 86400$
seconds

2 months = $86400 \times 60 = 5184000$

4.

a) 872 second into minute
and second

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

$$872 \text{ second} = 60 \times 872 =$$

$$13 \text{ minute } 52 \text{ second}$$

b) 924 minutes into hour and
minutes

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

$$924 \text{ minute} = 60 \times 924 =$$

$$= 15 \text{ hour } 24 \text{ second}$$

c) 205 hours into days and hours

24 hours = 1 day

$$205 \text{ hours} = 205 \times 24 =$$

4 days 9 hours

d) 745 hours into days and hours.

24 hours = 1 day

$$745 \text{ hours} = 745 \times 24 =$$

31 days 1 hour

e) 2024 minutes into hours and minutes

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

$$1024 \text{ minutes} = 1024 \cdot 60 \\ = 17 \text{ hours } 4 \text{ minutes}$$

5.

a) 512 days into weeks and days

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

$$512 \text{ days} = 7 \div 512 =$$

$$74 \text{ week } 4 \text{ days}$$

b) 365 days into weeks and days

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

$$365 \text{ days} \div 7 \div 365 =$$

$$52 \text{ week } 1 \text{ day}$$

c) 52 months into years
and months

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

$$52 \text{ months} = 52 \div 12 =$$

$$4 \text{ years } 4 \text{ months}$$

d) 86 months into years and
months

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

$$86 \text{ months} = 12 \div 86 =$$

$$7 \text{ years } 2 \text{ months}$$

e) 342 days into months and days

~~30 days = 1 month~~

30 days = 1 month

342 days = $30 \times 342 =$

11 months 12 days

f) 784 days into months and days

30 days = 1 month

784 days = $30 \times 784 =$

26 months 4 days

6.

a) 16 hours 600 seconds into minutes

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

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

$$16 \text{ hours} = 16 \times 60 = 960$$

$$600 \text{ seconds} = 600 \div 60 = 10$$

$$16 \text{ hours} = 960 + 10 = 970$$

so 16 hours 600 seconds = 970

b) 9 hours 360 seconds into minutes

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

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

$$9 \text{ hours} = 9 \times 60 = 540$$

$$360 \text{ seconds} = 360 \div 60 = 6$$

$$9 \text{ hours} = 540 + 6 = 546$$

$$\text{So } 9 \text{ hours } \cdot 360 \text{ second} = 546$$

(1) 2 days 180 minutes into
hours

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

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

$$2 \text{ days} = 24 \times 2 = 48$$

$$180 \text{ minutes} = 180 \div 60 = 3$$

$$2 \text{ days} = 48 + 3 = 51$$

Q) 9 days 5420 minutes into hours

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

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

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

$$5420 \text{ minutes} = 5420 \div 60 = 7$$

$$9 \text{ days} = 216 + 7 = 223$$