

Ex-20 (A)



1 ~~hr~~ 15 hrs = into min

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

$$= 15 \text{ hrs} = 15 \times 60 = 900 \text{ min}$$

2 (b) 9 hrs 56 min

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

56 min

$$= 9 \text{ hrs} = 9 \times 60 = 540 \text{ min} + 56 \text{ min} = 596 \text{ min}$$

3 (c) 1 min = 60 secs

$$= 36 \text{ mins} = 36 \times 60 = 2160 \text{ secs}$$

4 (d) 1 min = 60

28 secs

$$12 \text{ mins} = 12 \times 60 = 720 + 28 = 748 \text{ secs}$$

5 (e) 1 day = 24 hrs

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

(f) ~~1 day~~ 1 day = 24 hrs

12 days = $288 + 9 = 297$ hrs

(g) 1 hr = 60 min

1 hr = $1 \times 60 = 60$ mins + 45 mins = 105 mins

2. (a) 1 year = 12 months

5 years = $5 \times 12 = 60$ months + 9

(b) 1 week = 7 days

9 weeks = $9 \times 7 = 63$ days

(c) 1 week = 7 days

12 weeks = $12 \times 7 = 84 + 15 = 99$ days

(d) 1 week = ~~24 days~~ 7 days

1 day = 24 hrs

1 week = ~~24 \times 7 = 168~~ hrs $7 \times 24 = 168$ hrs

7 weeks = ~~576~~ ~~7~~ = ~~4032~~ 68 * 7 = 1176 hrs

1 week = ~~576~~ hrs 68 hrs

12 weeks = ~~576~~ * 12 = ~~6912~~ + 10 = 6922 hrs

~~2 yrs~~ = ~~10~~ = 212 + 10 = 2122 hrs

2 yrs = 12 mths

2 yrs + 10 mths = 2 * 12 = 24 + 10 = 34 mths

1 day = 24 hrs

1 hr = 60 min

1 day = 1440 min

~~2 hrs~~ 3 days = 4320 mins

1 hr = 60 min

5 hr = 60 * 5 = 300 min

3 day 5 hr 30 min = 4320 + 300 + 30 = 4650 min

3(a) 1 day = 24 hrs

1 hr = 3600 secs

1 day = $3600 \times 24 = 86,400$ secs

~~3(b)~~ 1 week = 7 days

1 day = 86,400 secs

7 days = $86,400 \times 7 = 6,04,800$

5 weeks = $6,04,800 \times 5 = 30,24,000$ secs

(c) 1 mth = 4 weeks

1 week = ~~30,24,000~~ 6,04,800 secs

4 weeks = 24,19,200

4.980 secs = 2 min

812 secs = $812 \div 60 = 13$ mins 32 sec

(b) ~~90 min~~ 60 mins = 1 hr

9 24 mins = $24 \div 60 = 1$ 3 mins 24 sec

(c) ~~10~~ 24 hrs = 1 day

108 hrs = 4 days 12 hrs

(d) ~~60 hrs = 7 days~~ 24 hrs = 1 day

~~749 hrs = 749 ÷ 60 = 12 hrs~~

749 hrs = $749 \div 24 = 3$ 1 days 1 hr

(e) 60 mins = 1 hr

2 1024 mins = $1024 \div 60 = 17$ hrs 4 mins

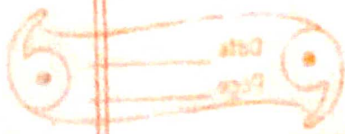
(f) 56 7 days = 2 weeks

512 days = $512 \div 7 = 73$ weeks 1 day

(g) ~~365 days = 2 weeks~~ 7 days = 2 weeks

~~365 days~~ 365 days = $365 \div 7 = 52$ weeks 1 day

(h) 12 months = 2 years



$$52 \text{ mths} = 52 \text{ mths} \div 12 = 4 \text{ years } 4 \text{ mths}$$

(a) $12 \text{ mths} = 1 \text{ year}$

$$86 \text{ mths} = 86 \div 12 = 7 \text{ ys } 2 \text{ mths}$$

(c) ~~1~~ $30 \text{ days} = 2 \text{ mth}$

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

(d) ~~784~~ $30 \text{ days} = 2 \text{ mth}$

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

6. (a) $1 \text{ hr} = 3600 \text{ sec}$

60 sec

$$16 \text{ hrs} = 3600 \times 16 = 57600 + 600$$

$$= 58200 \text{ secs} \div 60 = 970 \text{ sec}$$

(b) $1 \text{ hr} = 3600 \text{ secs}$

360 secs

$$9 \text{ hrs} = 3600 \text{ secs} \times 9 = 32400 + 360$$

$$= 32760 \div 60 = 546 \text{ mins}$$

(a) 1 day = ~~24 hrs~~ 1440

2 days 180 mins = $2880 + 180 = \del{3060}$

= $3060 \div 60 = 51 \text{ hrs}$

(d) ~~1~~ 1 day = 1440 mins

9 days 420 mins = $1440 \times 9 =$

= $12960 + 420 = \del{13380}$

= $13380 \div 60 = 223 \text{ mins}$