

Homework
13.12.2021

Exercise - 15 (c)

1. Convert into hours.

(a) 8 days

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

$$8 \text{ days} = 8 \times 24 = 192 \text{ hours}$$

(b) 5 days 10 hours

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

$$5 \text{ days } 10 \text{ hours} = 5 \times 24 + 10 = 130 \text{ hours}$$

(c) 10 days 20 hours

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

$$10 \text{ days } 20 \text{ hours} = 10 \times 24 + 20 = 260 \text{ hours}$$

(d) 6 days 2 hours

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

$$6 \text{ days } 2 \text{ hours} = 6 \times 24 + 2 = 146 \text{ hours}$$

2. Convert into minutes.

(a) 3 hours

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

$$3 \text{ hours} = 3 \times 60 = 180 \text{ minutes}$$

(b) 2 hours 6 minutes

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

$$2 \text{ hours } 6 \text{ minutes} = 2 \times 60 + 6 = 126 \text{ minutes}$$

(c) 8 hours 40 minutes

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

$$8 \text{ hours } 40 \text{ minutes} = 8 \times 60 + 40 = 520 \text{ minutes}$$

(d) 15 hours 30 minutes

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

$$15 \text{ hours } 30 \text{ minutes} = 15 \times 60 + 30 = 930 \text{ minutes}$$

3. Convert into seconds.

(a) 6 minutes

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

$$6 \text{ minutes} = 6 \times 60 = 360 \text{ seconds}$$

(b) 2 ~~minutes~~ ^{hours} 6 minutes

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

$$2 \text{ hours } 6 \text{ minutes} = 2 \times 60 + 6 = 124 \text{ seconds}$$

(c) 40 minutes 30 seconds

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

$$40 \text{ minutes } 30 \text{ seconds} = 40 \times 60 + 30 = 2430 \text{ seconds}$$

(d) 1 hour 2 minutes 30 seconds

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

$$1 \text{ hour } 2 \text{ minutes } 30 \text{ seconds} = 1 \text{ hour} = 60 \times 60 = 1200, 2 \text{ minutes} = 2 \times 60 = 120, = 1200 + 120 + 30 = 270$$

4. Convert ~~into~~ into minutes and seconds.

a) 450 seconds

60 seconds = 1 minute

$$450 \text{ seconds} = 450 \div 60 = 7 \text{ minutes } 30 \text{ seconds}$$

$$\begin{array}{r} 60 \overline{) 450} \\ \underline{- 420} \\ 030 \end{array}$$

Here, the quotient 7 denotes the minutes and remainder 30 represent the ~~second~~ seconds.

b) 540 seconds

~~1 minute = 60 seconds.~~

~~1 min~~

60 seconds = 1 minute

540 seconds = $540 \div 60 = 9$ minutes

$$\begin{array}{r} 9 \\ \underline{60 \overline{) 540}} \\ - 540 \\ \hline 0 \end{array}$$

Here, the quotient 9 denotes the minutes, and the remainder 0 represents ~~the~~ seconds.

c) 900 seconds

60 seconds = 1 minute

900 seconds = $900 \div 60 = 15$ minutes

$$\begin{array}{r} 15 \\ \hline 60 \overline{) 900} \end{array}$$

$$\begin{array}{r} \\ \phantom{60 \overline{) 900}} \\ \hline \phantom{60 \overline{) 900}} - 900 \\ \hline \phantom{60 \overline{) 900}} 0 \end{array}$$

Here, the quotient 15 denotes the minutes and remainder 0 ~~represent~~ represent seconds.

(d) 1006 seconds

60 seconds = 1 minute

1006 seconds = $1006 \div 60 = 16$ minutes
46 seconds

$$\begin{array}{r} 16 \\ 60 \overline{) 1006} \end{array}$$

$$\begin{array}{r} - 960 \\ \hline 046 \end{array}$$

Here, the quotient 16 denotes the minutes and remainder 46 represent seconds.