

P.4 MATHS LESSON NOTES WEEK 3 OCTOBER

LESSON 1

TOPIC: TIME

SUBTOPIC: Reading and telling time

There are 24 hours in a day. Half of a day has 12 hours. The first 12 hours are of morning and the last 12 hours are of afternoon and evening.

Morning hours (a.m.)

We start by counting morning hours after 12 O'clock in the middle of the night.

12 O'clock in the middle of the night is called **midnight**. 1 hour after mid night is 1 O'clock. This is written in short as 1 am or 1.00 am. Am stands for after mid night. It also means morning hours.

12 hours after midnight brings us to 12 o'clock in the middle of the day. 12 O'clock in the middle of the day is called **midday**. Midday is also called **noon**. In short, it is written 12 noon or 12.00pm.

Activity

1. At what time do you brush your teeth?
2. At what time do you take breakfast?
3. At what time do you wake up?
4. At what time do you go to school?
5. At what time do you go out for break at school?
6. At what time do you wash your face?

Afternoon and evening hours

We start counting after noon and evening hours after 12 midday.

1 hour past midday is 1 O'clock. This is written as 1pm or 1.00 p.m. In short p.m. stands for past midday. It also means afternoon and evening hours.

12 hours past midday brings us to 12 midnight

Activity

1. At what time do you get your lunch?

2. At what time do you start afternoon lessons?
3. At what time do you go home?
4. At what time do you go for games?
5. At what time do you go to bed?
6. At what time do you eat supper?

LESSON 2

TOPIC : TIME

SUBTOPIC : Changing hours to minutes

CONTENT : Examples

(a) Change 4hrs to minutes

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

$$4 \text{ hrs} = (4 \times 60) \text{ minutes}$$

$$\underline{\underline{240 \text{ minutes}}}$$

b) How many minutes are in $3\frac{1}{4}$ hours?

$$\Rightarrow 3\frac{1}{4} \text{ hrs} = (3 \times \frac{1}{4}) \text{ hours}$$

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

$$3 \text{ hrs} = (3 \times 60) \text{ minutes}$$

$$180 \text{ minutes}$$

$$\frac{1}{4} \text{ hr} = \underline{\underline{15}} \text{ minutes}$$

$$3\frac{1}{4} \text{ hrs} = \underline{\underline{195}} \text{ minutes}$$

ACTIVITY

Express the following hours as minutes.

1. 3 hr
2. 4 hr
3. 8 hr
4. $6\frac{1}{4}$ hr
5. The village meeting lasted 3 hours. How many minutes did it take?

LESSON 3

TOPIC : TIME

SUBTOPIC : Changing minutes to hours

Example . 1. Change 180 minutes to hours

60 minutes = 1 hour

$$180 \text{ minutes} = \frac{180}{60}$$

Therefore 180 minutes = 3 hours

2. A taxi travelled for 540 minutes. How many hours did it take?

60 minutes = 1 hour

$$540 \text{ minutes} = \frac{540}{60}$$

There it took 9 hours.

ACTIVITY

1. 120 minutes
2. 240 minutes
3. 360 minutes
4. 90 minutes
5. The concert lasted for 300 minutes. Express the time it lasted in hours.

LESSON 4

TOPIC : **TIME**

SUBTOPIC : **Writing the time in hours and minutes**

CONTENT : Examples: Write 70 minutes in hours and

Method 1 1 hr = 60 minutes

$$\begin{array}{r} 1r10 \\ 60 \overline{)70} \\ \underline{60} \\ 10 \end{array}$$

70 minutes = 1 hour 10 minutes.

Method 2 Using repeated subtraction

1 hr = 60 minutes

We subtract 60 from a given number of minutes repeatedly until we get a number which is smaller than 60

$$\begin{array}{r} 70 \\ - 60 \longrightarrow 1 \text{ hour} \\ = \underline{10} \longrightarrow 10 \text{ minutes} \end{array}$$

Therefore 70 minutes = 1 hour 10 minutes

ii) Write 130 minutes into hours and minutes

1 hr = 60 minutes

$$\begin{array}{r} 130 \\ - 60 \longrightarrow 1 \text{ hour} \\ 70 \\ - 60 \longrightarrow \text{another 1 hour} \\ \underline{10} \longrightarrow 10 \text{ minutes} \end{array}$$

Therefore 130 minutes = 2 hours 10 minutes

ACTIVITY:

Change the following time into hours and minutes

1. 80 minutes
2. 95 minutes
3. 110 minutes
4. 200 minutes
5. 215 minutes

LESSON 5

TOPIC : **TIME**

SUBTOPIC : **Addition of time**

CONTENT : (b) HRS MIN

$$\begin{array}{r} 1 \quad 40 \\ 2 \quad 15 \\ \hline 3 \quad 55 \end{array}$$

(b)
$$\begin{array}{r} \text{HRS} \quad \text{MIN} \\ 13 \quad 40 \\ + 4 \quad 30 \\ \hline 8 \quad 10 \\ \hline 70 \\ - 60 \rightarrow 1 \text{ hr} \\ \hline = 10 \text{ mins} \end{array}$$

ACTIVITY:

(a)
$$\begin{array}{r} \text{HRS} \quad \text{MIN} \\ 1 \quad 20 \\ 2 \quad 10 \\ \hline \hline \end{array}$$

(b)
$$\begin{array}{r} \text{HRS} \quad \text{MIN} \\ 3 \quad 30 \\ + 2 \quad 20 \\ \hline \hline \end{array}$$

(c)
$$\begin{array}{r} \text{HRS} \quad \text{MIN} \\ 2 \quad 32 \\ + 2 \quad 14 \\ \hline \hline \end{array}$$

(d) HRS MIN
6 45
+ 3 25

(e) HRS MIN
4 50
+ 1 20
