

Group 1 Maths Task

Short Time Intervals

Be able to calculate basic time intervals

Counting on :- The easiest way of finding how long something lasts is by "counting on".

Example :- A TV programme starts at 7.45 pm and ends at 10.25 pm.
How long did it last ?

Answer :-

| | | | | | | |
|---------|---|---------|---|----------|---|---------------|
| 2 hours | + | 15 mins | + | 25 mins | = | 2 hrs 40 mins |
| 7.45 pm | → | 9.45 pm | → | 10.00 pm | → | 10.25 pm |

or

| | | | | | | |
|---------|---|---------|---|----------|---|---------------|
| 15 mins | + | 2 hrs | + | 25 mins | = | 2 hrs 40 mins |
| 7.45 pm | → | 8.00 pm | → | 10.00 pm | → | 10.25 pm |

Exercise 3

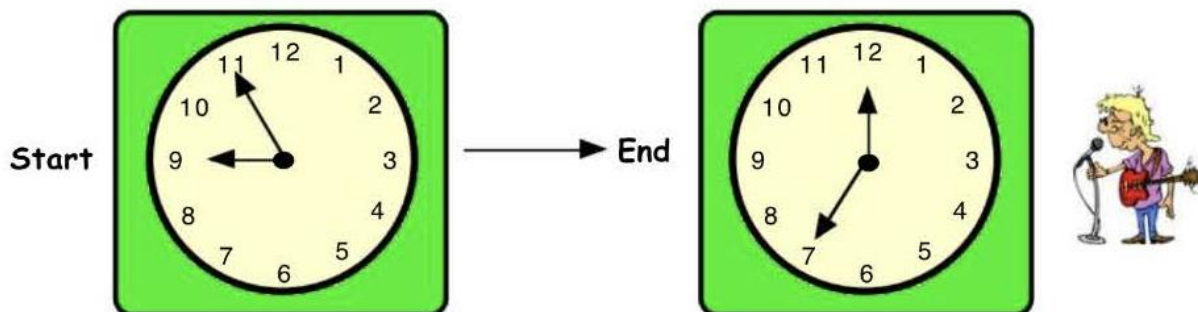
- How long is it from :- (show which method you used to "count on" in obtaining your answer)

| | |
|----------------------|----------------------------|
| a 3.05 pm to 6.05 pm | b 10.00 am to 12.30 am |
| c midday to 5.30 pm | d 8.30 pm to 11.35 pm |
| e 7.55 am to 9.25 am | f 4.40 am to 10.15 am |
| g 0820 to 1025 | h 1855 to 2020 |
| i 1950 to 2105 | j 2240 to 0300 (next day). |

- Calculate the **finishing times** of the following films :-

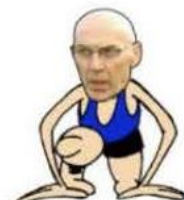
| | Film A | Film B | Film C | Film D | Film E |
|-------------|--------------|--------------|--------------|----------|--------------|
| Start Time | 3.30 pm | 5.45 pm | 8.35 pm | 11.35 am | 11.30 pm |
| Show lasted | 2 hr 30 mins | 2 hr 40 mins | 2 hr 45 mins | 55 mins | 3 hr 45 mins |

- The two clocks show when a gig started and finished one Saturday evening.



For how long did the gig last ?

- Ian Fraser set off on the Greenock Marathon at 10.35 am.
He arrived at the finish line at 2.14 pm.
How long had Ian taken to run the marathon ?



5. Shown is part of the bus timetable from Malton to Highrose.

| | Malton | Lugton | Blythe | Fenton | Highrose |
|-----------|----------|----------|----------|----------|----------|
| Early Bus | 7.10 am | 8.20 am | 10.30 am | 11.15 am | 2.00 pm |
| Late Bus | 11.05 am | 12.15 am | | | 5.55 pm |

- a How long does the early bus take to travel from :-
 (i) Malton to Lugton (ii) Blythe to Fenton (iii) Malton to Highrose ?
- b Assuming that the late bus travels at the same speed as the early bus, when would it be expected to arrive at :-
 (i) Blythe (Hint ! Notice how long the early bus takes from Lugton to Blythe)
 (ii) Fenton ?



6.



A cargo ship leaves Dunbar Harbour at 4.48 am and does not reach its destination till quarter to 6 at night.
 For how long had the ship been at sea ?

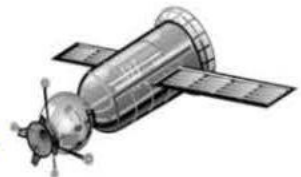
7. A plane leaves Edinburgh Airport at 2150 on Thursday. It touches down in Mexico at 0735 (British time) on Friday.



- a How long did the flight take ?
 On the flight back the plane took the same flight time and left at 0840 (British Time).
 b At what time did the plane arrive at Edinburgh ?

8. A satellite circles the earth. At 0335 it is directly above Cumbernauld. It is then found to be above Cumbernauld again at 0710.

- a Calculate the time taken for 1 complete orbit of the earth.
 b When would you next expect the satellite to be over Cumbernauld ?
 c How many **complete** orbits will it make in a day ?



9.



Joe challenged Penny to see who could paint one side of the fence surrounding the village green quicker.
 Joe started his side at 1045 and completed his task at 1305.
 Penny began to paint the other side at 1350 and finished at 1505.
 Who was quicker and by how many minutes ?

Group 2 Maths Task

Reading Simple Timetables

Shown is the 23 bus timetable.



| | |
|----------|----------|
| Airdrie | 10:45 am |
| Falkirk | 11:25 am |
| Stirling | 11:59 am |
| Perth | 12:20 pm |
| Dundee | 1:05 pm |

Be able to interpret simple timetables.



The bus is at Airdrie at "quarter to 11 in the morning".

The bus is at Falkirk at "twenty five minutes past 11 in the morning".

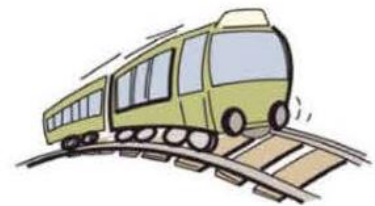
Exercise 4

- Look at the timetable above.
Write the other 3 bus times out fully **in words**.
- Look at the train timetable below.



| | | | | | | | | |
|----------|---|----------|---|-------|---|---------|---|--------|
| Aberdeen | → | Glasgow | → | Leeds | → | Luton | → | London |
| 9·55 am | | 12·05 am | | | | 5·40 pm | | |

- At what time did the train leave **Aberdeen** ?
- At what time was the train at **Glasgow** ?
- The train arrived at Leeds at **10 past 3** in the afternoon.
Write this time (using am/pm).
- Write out in words when the train was at **Luton**.
- The train journey ended in London at **ten to seven** at night.
Write this time (using am/pm).



3. Eric and his dad arrived at the show at **6·50 pm**.
Were they **late** or **early** ?

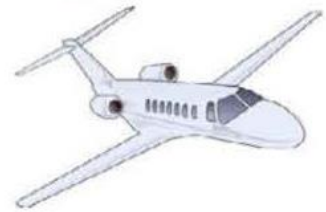


4.

| EASY-AIR Flight Departures | |
|-------------------------------|----------|
| Malaga | 10:55 am |
| Palma | 11:40 am |
| Barcelona | 12:35 pm |
| Ibiza | 1:05 pm |
| Tenerife | 2:50 pm |
| Nice | 3:20 pm |

Amy's mum is checking her flight times.
Her plane to Malaga leaves at **5 to 11 in the morning**.

Write the other departure times in a similar way.



5. Stacey was looking at Channel 6's T.V. programmes for Tuesday.

- a **Royal Ascot** is on at **25 past 3** in the afternoon.

Write out the times of the following programmes fully in a similar way :-

- (i) Count-Up
- (ii) Away And Home
- (iii) Sports Roundup
- (iv) News In Brief

CHANNEL 6

| | |
|------|----------------------|
| 3:05 | Olivio (R) |
| 3:25 | Royal Ascot |
| 3:50 | Count-Up (game show) |
| 4:15 | Ace Adventura (film) |
| 5:25 | Away And Home |
| 5:50 | Tea-Time News |
| 6:25 | Scottish Report |
| 7:05 | Seven-Alive |
| 7:35 | Sports Roundup |
| 8:00 | BIG SISTER (live) |
| 8:50 | News In Brief |
| 9:00 | Pyjama-Banana (film) |

- b Stacey was watching Channel 6 at **5 past 4**.

Which programme must she have been watching ?

- c Which programmes are showing on Channel 6 at :-

- (i) 5:35 pm
- (ii) 7:50 pm
- (iii) $\frac{1}{4}$ past 8 at night ?

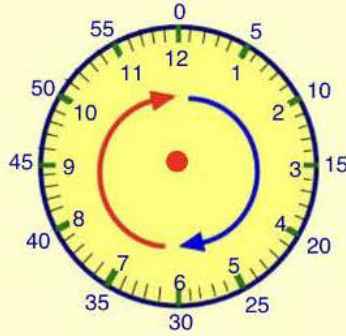
Group 3 Maths Task

Telling the Time

Be able to tell the time from an analogue clock.

Remember :- There are **60** minutes in an hour.

When the **big** hand is between the 6 and the 12 we say it is **to** the (*next*) hour.



When the **big** hand is between the 12 and the 6 we say it is **past** the (*last*) hour.

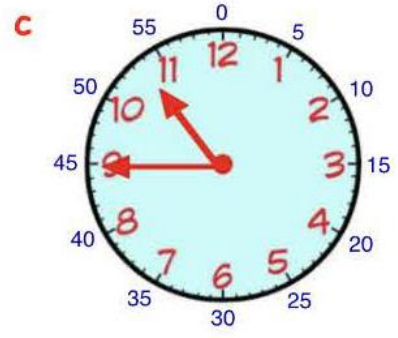
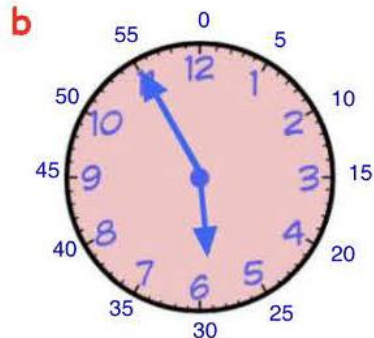
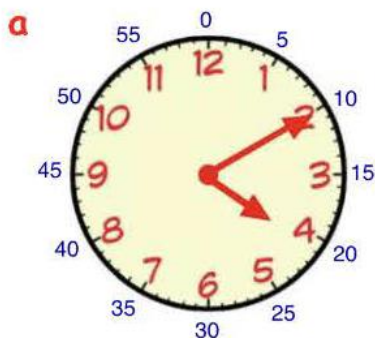
This clock says
10 minutes past 7

This clock says
5 minutes to 2

This clock says
20 minutes past 6

Exercise 2

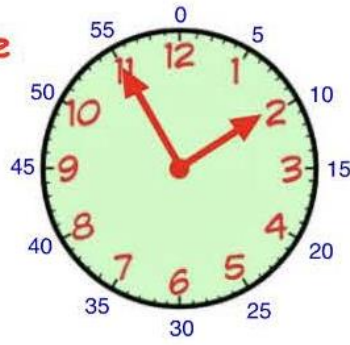
1. Write down the time on each clock :-



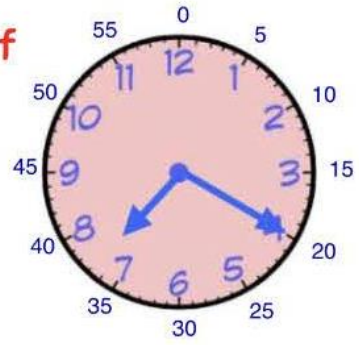
1. d



e



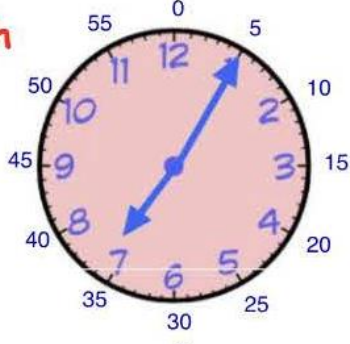
f



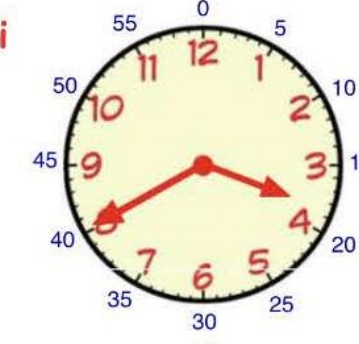
g



h



i



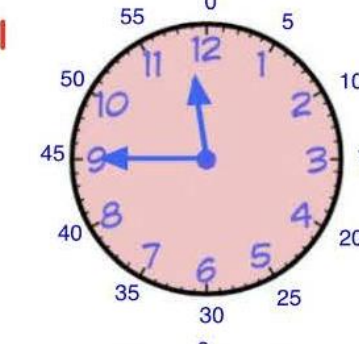
j



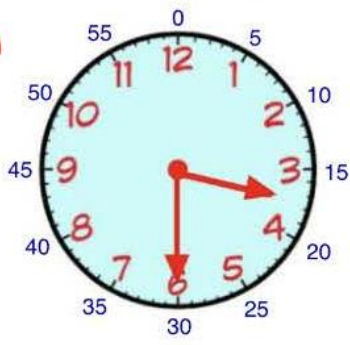
k



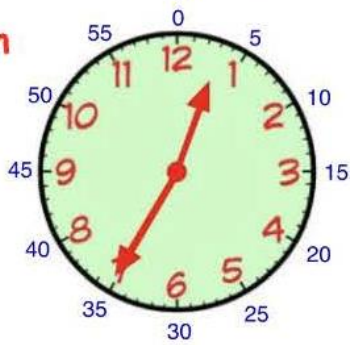
l



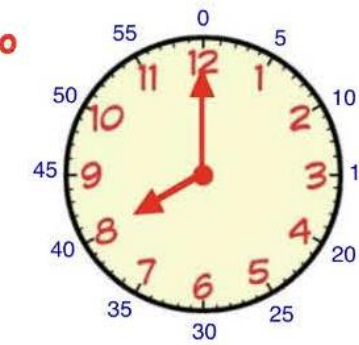
m



n



o



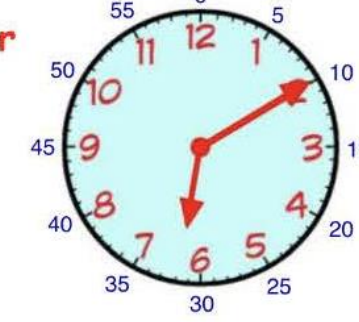
p



q



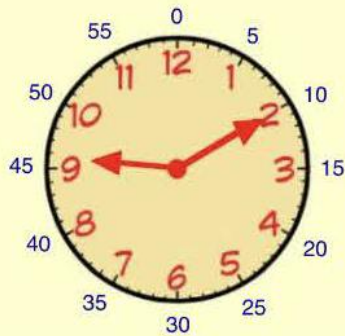
r



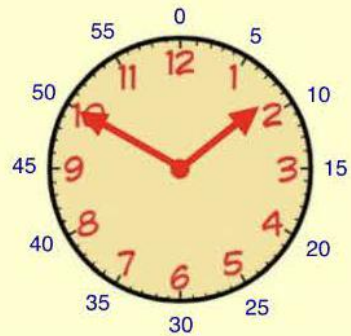
2. Draw some clock faces of your own .

Show the different times of the day when you do things.

These clock times can be written in **two** ways.



9:10 or **ten past nine**



1:50 or **ten to two**

3. Write each of these times in **two** ways :-

