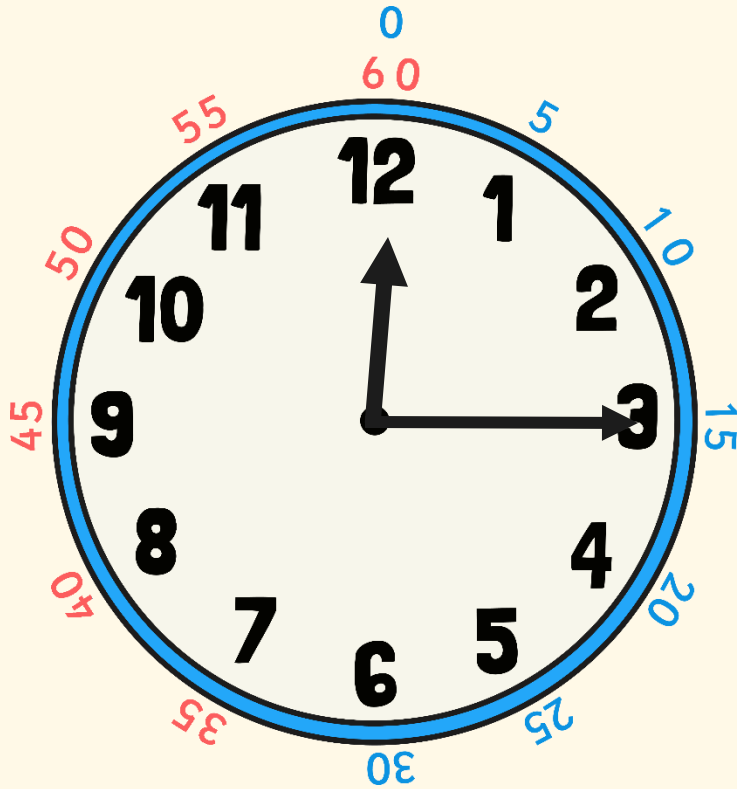




Read, Write and Convert
Time Between Analogue
and Digital 12-hour Clocks.

twinkl

Converting from Analogue to Digital



Do the clocks show the same time?

What is the same about the clocks?

What is different?

Digital Clocks



Digital clocks have an hour and minute display, separated by a colon.

The hours will always be before the colon.

The minutes will always be after the colon.

Digital Display

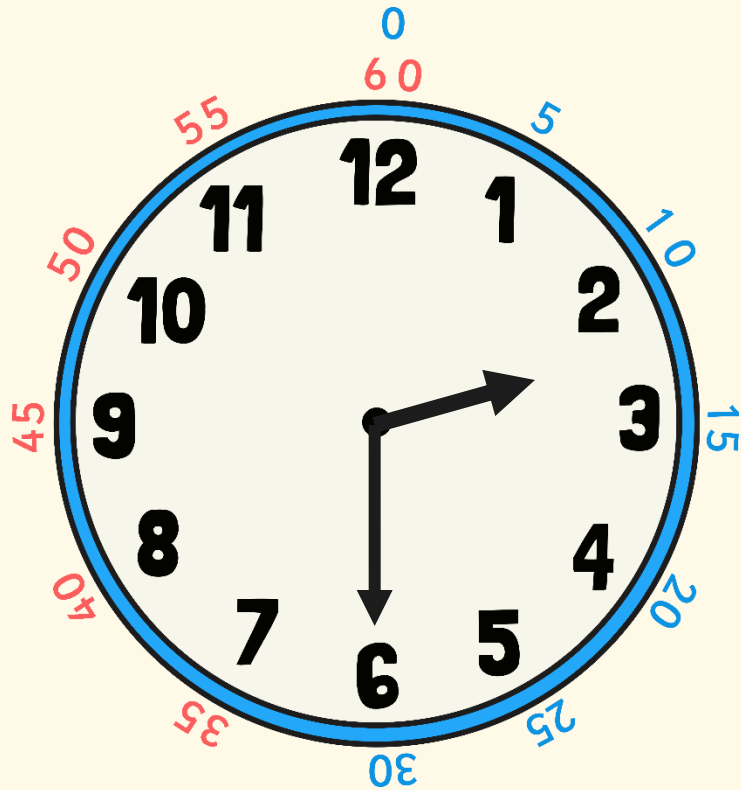


Do these 2 clocks show the same time?

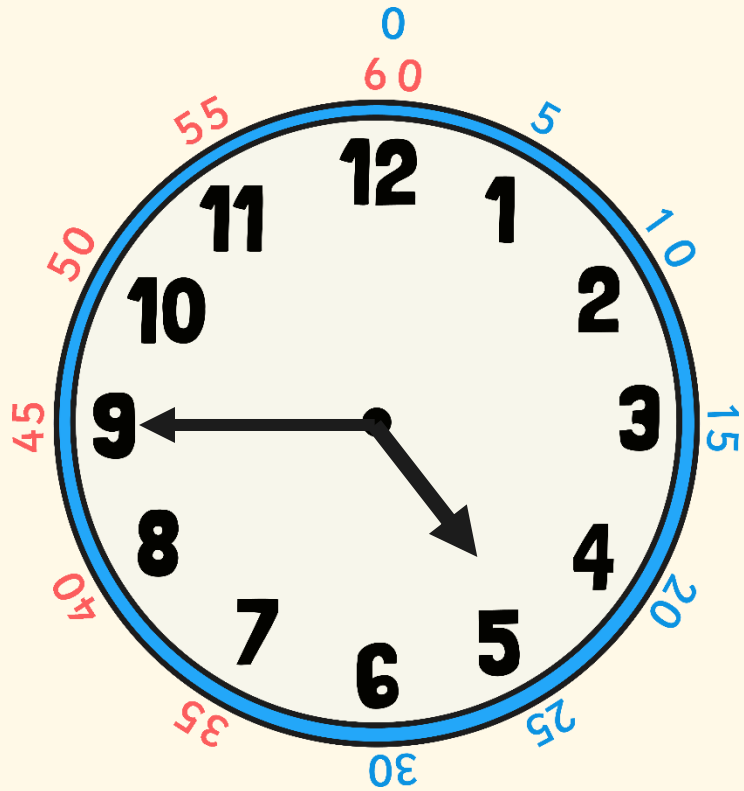
What is different about them?

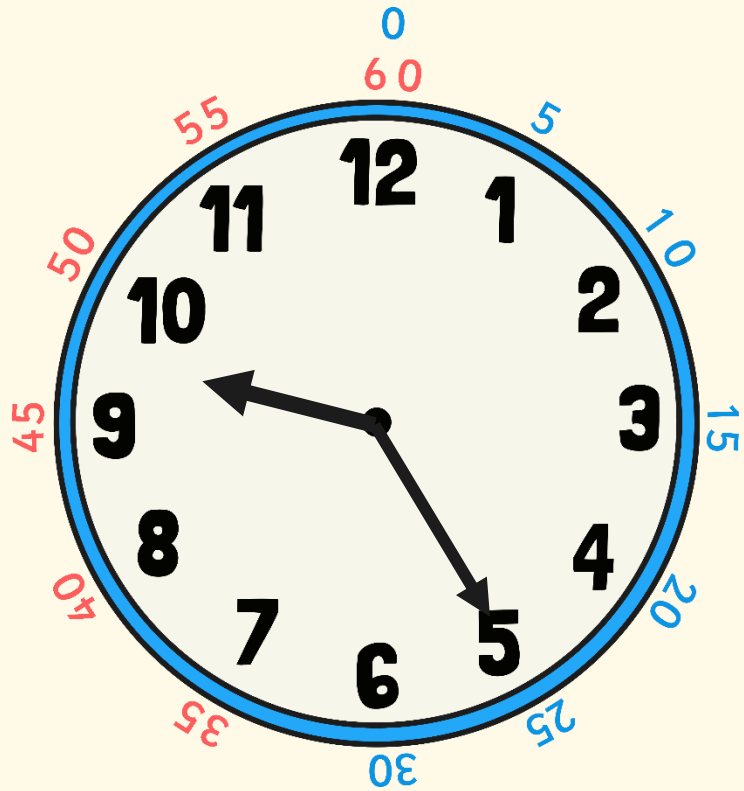
The hour may show just one digit but the minutes will always show 2 digits.

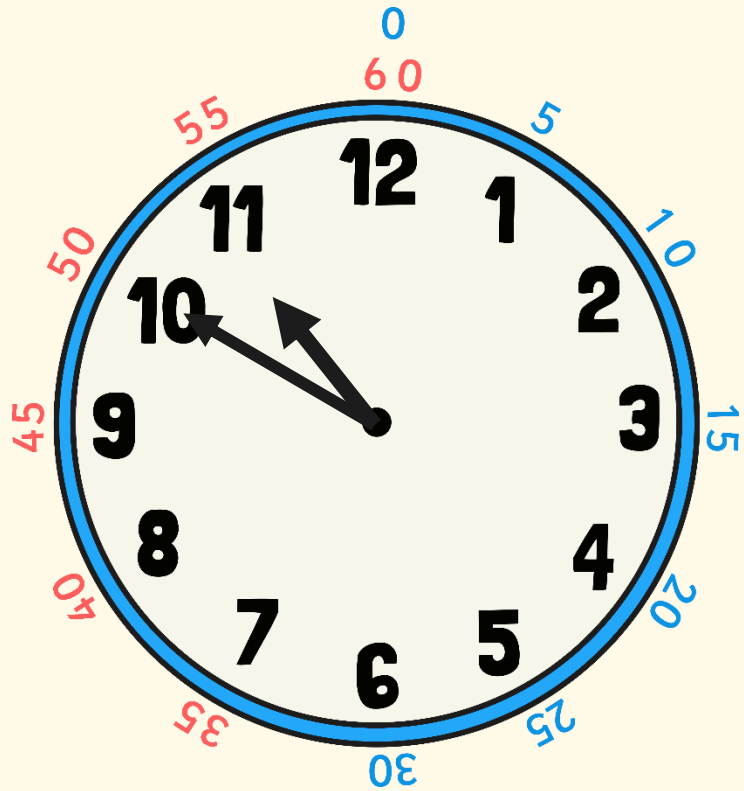
Converting to Digital Time



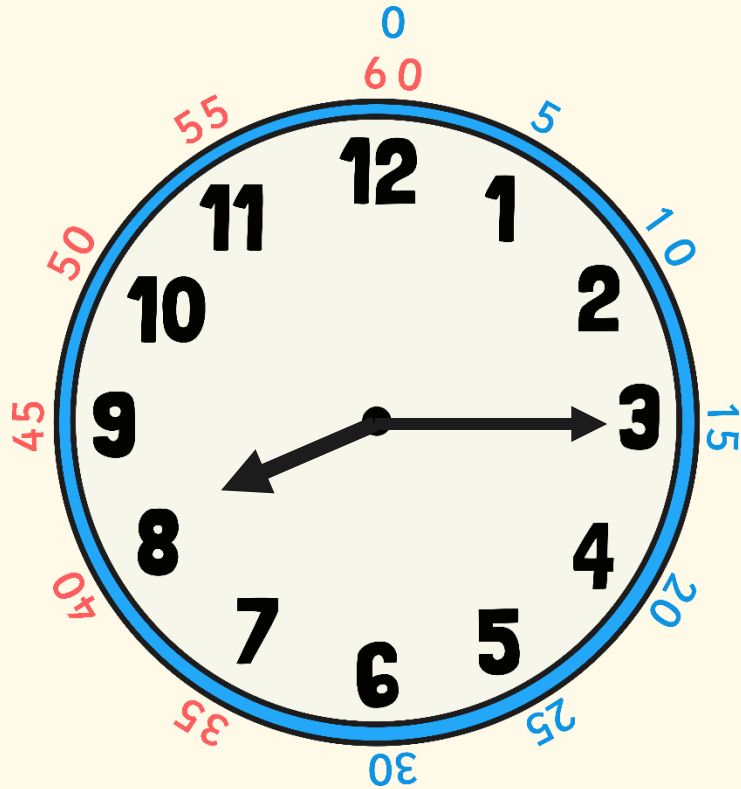
Count round the minutes in 5s.



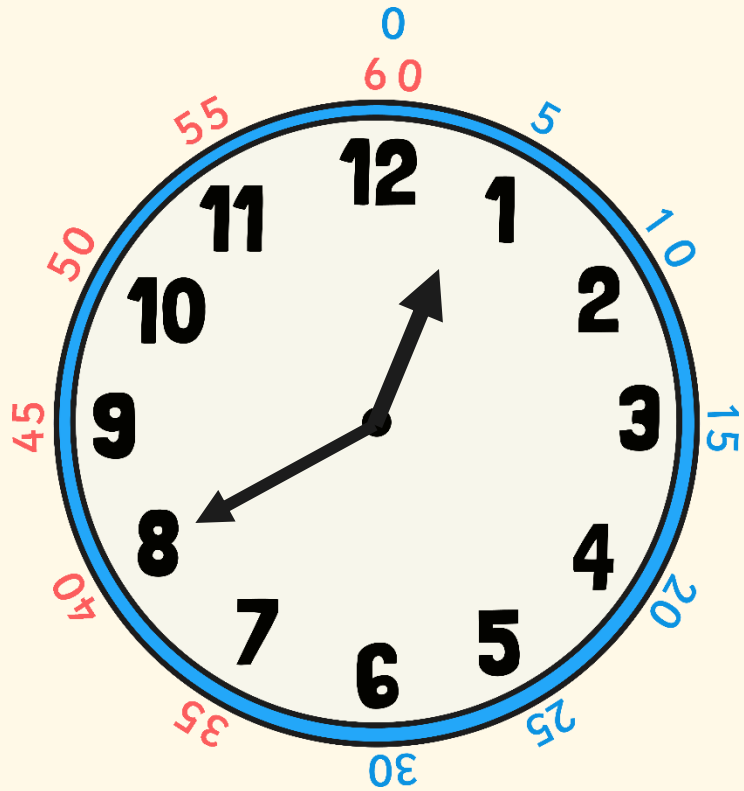




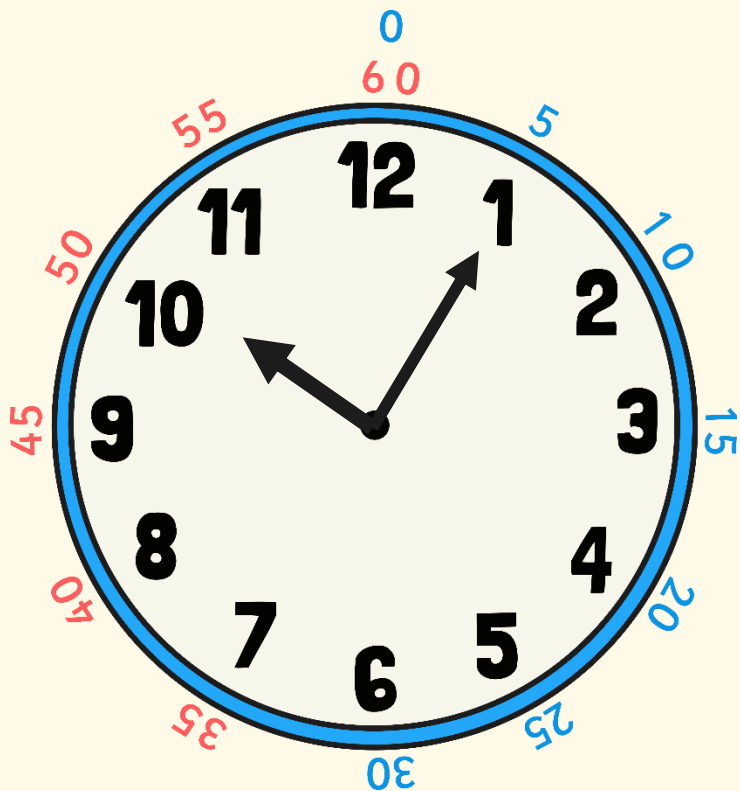
Converting to Analogue Time



Count round the minutes in 5s.

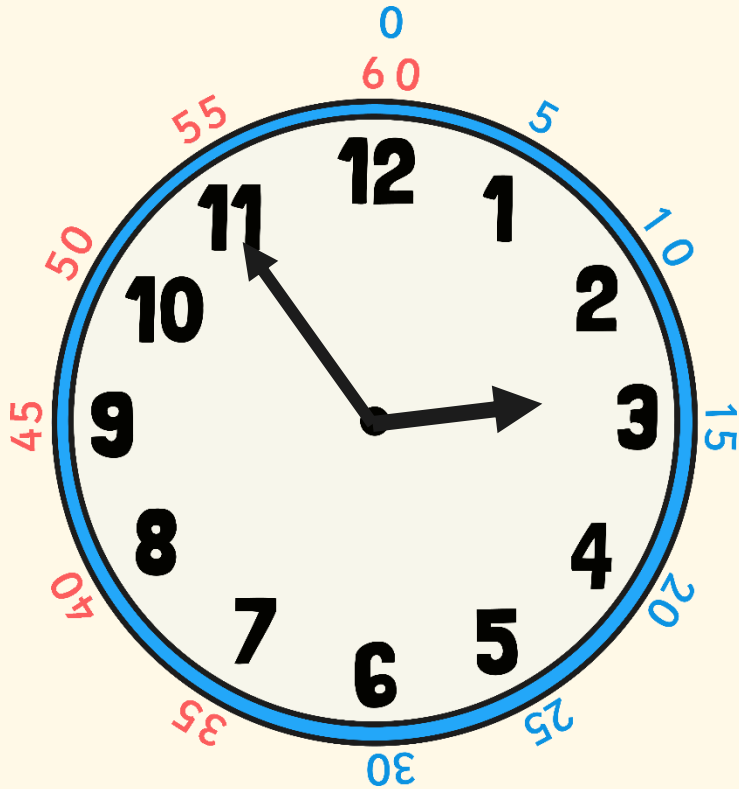


This is in the morning.



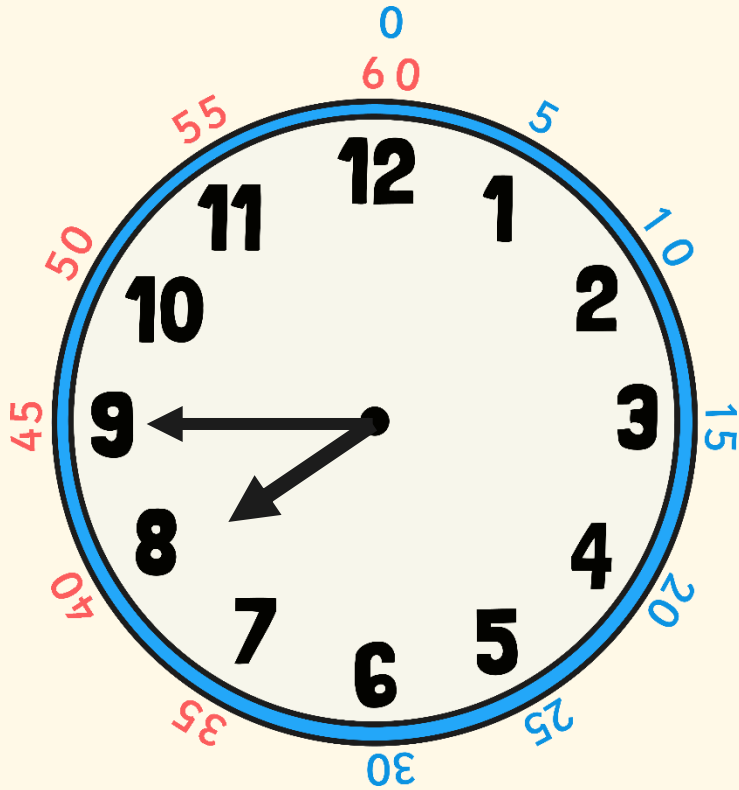
10:05 a.m.

This is in the afternoon



2:55 p.m.

This is in the evening.



7:45 p.m.



11

12

1

10

Task 1

Complete the converting time activity sheet - all Maths groups

2

9

Task 2 – challenges below for Mr. King's group if you want to stretch yourself.

3

8

Mrs. Wingfield & Ms. Baldwin's groups all to complete at least 2.

4

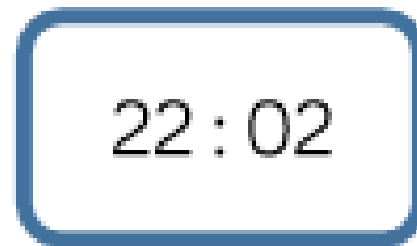
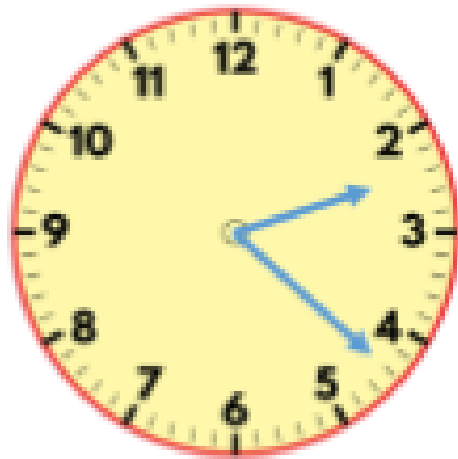
7

5

6

Akeela converts the analogue time to digital format.

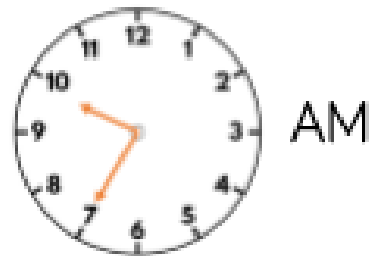
Here is her answer.



Explain what Akeela has done wrong.
What should the digital time be?

Jack arrives at the train station at the time shown.

Which trains could he catch?



| Destination | Departs |
|-------------|------------|
| New Pudsey | 09 : 25 AM |
| Bramley | 09 : 42 AM |
| Leeds | 10 : 03 AM |
| York | 07 : 10 AM |

How long will Jack have to wait for each train?

Investigate!

On a 12 hour digital clock, over 12 hours, how many times does the number 4 appear?

Work systematically to find all the possibilities.

This may take you a while!

Stop here!

- **Only go past this point when you have finished your challenge tasks for the answers.**

Answers

Akeela has recorded the minutes past the hour first instead of the hour.
The time should be 02 : 22

Jack could catch the train to Bramley or Leeds.

He would have to wait 7 minutes to go to Bramley and 28 minutes to go to Leeds.

Children can work systematically to work this out. For example, 01:04, 01:40, 01:14, 01:24 etc.