



# HELLO!

Today we are going to revise time



# Arithmetic Warm Up

Fill in the box with a =, < or > symbol to make the statement true

1. 24 days 10 weeks

2. 1 month 240 hours

3. What is 644 minutes in hours and minutes?

hours minutes







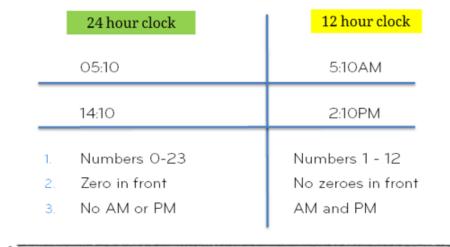
# Today we are going to revise how to

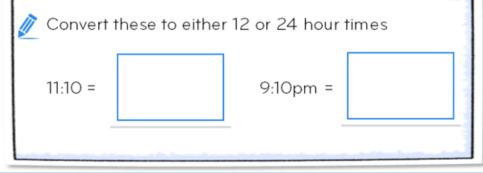
- read, write and convert between analogue and digital clocks
- solve time problems

24 12 hour hour clock clock 00:10 12:10 AM 01:10 1:10 AM 02:10 2:10 AM 03:10 3:10 AM 04:10 4:10 AM 05:10 5:10 AM 06:10 6:10 AM 07:10 7:10 AM 08:10 8:10 AM 09:10 9:10 AM 10:10 10:10 AM 11:10 11:10 AM 12:10 12:10 PM 13:10 1:10 PM 14:10 2:10 PM 15:10 3:10 PM 16:10 4:10 PM 17:10 5:10 PM 18:10 6:10 PM 19:10 7:10 PM 20:10 8:10 PM 21:10 9:10 PM 22:10 10:10 PM 23:10 11:10 PM

#### 12 and 24 hour time

Main differences between writing times in 24-hour and 12-hour clock





# Revision: Solving time problems

Match each time problem with the correct calculation you need to do and write what unit each answer would be in.

Milly takes 11 seconds to do one sum. How long does it take her to do 8 sums?

Ella runs for 8 minutes then walks for 11 minutes. How long is this altogether?

Ben gets on the bus at 10.08 and gets off again at 10.11. How long was he on the bus for?



# Revision: Solving time problems

Jenny leaves the house at 09.36 and arrives at her friend's house at 10.18. How many minutes did it take her?

#### What are the important words and numbers in the question?

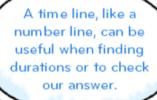
What units are in the question?

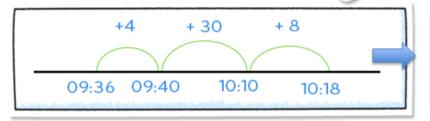
What units do we need for the answer?

What calculation do we need to do?

You <u>cannot</u> subtract times to find the difference.











## Question 2



- 1. What do you notice?
- 2. What do you know?

Can you show your working out?

4. How could you <u>extend</u> the question?

A clock shows 13:25 and is  $\frac{3}{4}$  hour slow.

Write the actual time in 12 hour time.



# Question 3



1. What do you notice?

2. What do you know?

Can you show your working out?

4. How could you <u>extend</u> the question?

Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34

How many minutes does it take the 10:31 bus from Riverdale to

minutes

Mr Evans is at Fordham at 10:30

reach Mott Haven?

What is the earliest time he can reach Tremont on the bus?



#### Let's review:



read, write and convert between analogue and digital clocks

solve time problems

Draw a circle around the smiley face to show how you feel about what we've just been doing.









#### CHALLENGE



Use the space provided to complete the following question.

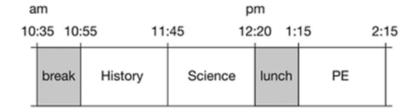
What do you notice?

2. What do you know?

Can you show your working out?

4. How could you extend the question?

Here is part of the timetable for Class 6 on a Monday.



Look at the timetable.

How long is it from the end of break to the start of lunch?



#### 60 minutes in an hour



How many minutes in half an hour?



# Converting units of time

#### Complete these time conversions.

- minutes to seconds × by 60.
- seconds to minutes ÷ by 60.
- hours to minutes × by 60.
- minutes to hours ÷ by
- weeks to days
   by
- days to weeks
   by
  - years to months by
- months to years by







# Converting units of time





- 2. 180 seconds = minutes
- 3. 5 minutes = seconds
- 4. 84 days = weeks
- 5. 6 years = months



# Converting 12-hour clock to 24-hour clock

The rules: For the first hour of the day (12 midnight to 12.59am), subtract 12 hours.





From 1.00am to 12.59pm, no change except to take off the am or pm and make sure time is written as 4 digits.





# Converting 12-hour clock to 24-hour clock

From 1.00pm to 11.59pm, add '12' to the hour and take off the pm.

#### 12-hour clock

1.00pm

6.38pm

9.15pm

# 24-hour clock 13.00

# Converting 24-hour clock to 12-hour clock

#### The rules:

For the first hour of the day (00.00 to 00.59), add 12 hours and write 'am'.





From 01.00 to 11.59 no change except to add am and, if the first digit is zero, take that off.





# Converting 24-hour clock to 12-hour clock

From 12.00 to 12.59, just add 'pm'.

24-hour clock 12.00 12.47



From 13.00 to 23.59, subtract 12 hours and add 'pm'.

24-hour clock

14.33

18.19

23.59

14 - 12 = 2

18 - 12

12-hour clock

2.33pm

#### Practice time

Match these times with the times on the 12-hour clock.

Quarter past seven in the morning

Quarter past noon

12.15am

Quarter past midnight

7.15am

Quarter past seven in the evening



### Question 1



- 1. What do you notice?
- 2. What do you know?

Can you show your working out?

4. How could you <u>extend</u> the question?

James has a watch that shows analogue time in the

evening.



Ann has a digital watch that shows the same time using

24-hour clock. What does her watch show?

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