

HELLO!

Today we are going to revise Roman Numerals
and Time

Arithmetic Warm Up

Addition

Do
question 1
mentally

1. $969 + 200 =$

2. $6.19 + 0.3 =$

$$\begin{array}{r} 6.19 \\ + 0.3 \\ \hline \end{array}$$

3. $1054 + 967 =$

$$\begin{array}{r} 1054 \\ + 967 \\ \hline \end{array}$$

4. $\frac{1}{4} + \frac{3}{8} =$

Revision on measurement

Today we are going to revise how to



read roman numerals



read, write and convert between analogue and digital clocks



solve time problems

Revision: Roman numeral symbols to 1000

1. Complete this table:

I	1
V	5
X	
L	
C	
D	
M	

Use as few numerals as possible

X is 10 NOT VV or IIIIIIIII



Revision: Roman rules

The biggest number is usually first (e.g. 55 = LV) but **NOT** when four of the same symbols would appear together. Instead of four of the same symbols (e.g. 4 \neq IIII), small numbers are put first which means we subtract (e.g. 4 = 5-1 = IV)

Sometimes, you need to add **AND** subtract

$$\text{XIV} = 10 + 4 = 14$$



What are these numbers in figures?

a) XIX =

b) 67 =

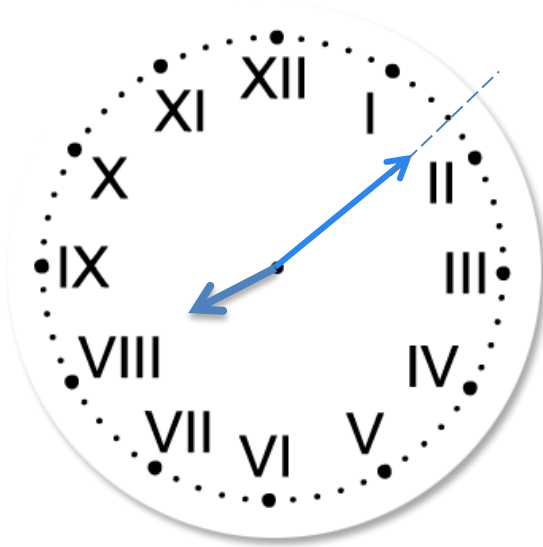
c) CXV =

Reading time on a clock with roman numerals

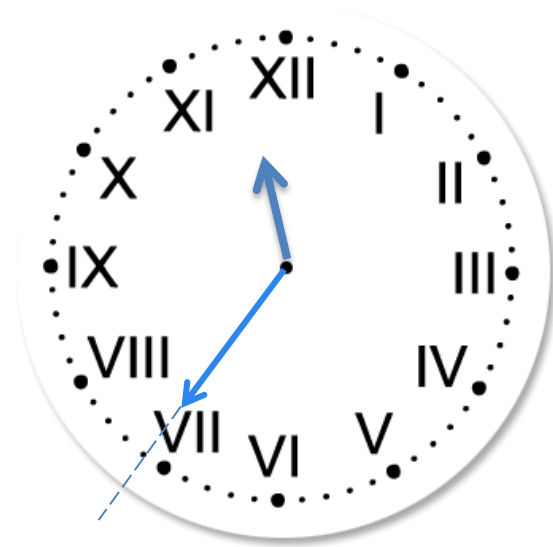
Some clocks have Roman numerals.

Read the time on these clocks.

1.



2.





Complete

Question 1

 What do you notice?


Write these times in order, starting with the shortest.

24 days

10 weeks

1 month


48 hours

What do you know? 

 Can you show your working out?




shortest

How could you extend the question? 



Complete


Question 2

 What do you notice?


What is 444 minutes in hours and minutes?

hours

minutes

What do you know? 

 Can you show your working out?

How could you extend the question? 

Converting 12-hour clock to 24-hour clock

00:10	12:10 AM	3
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	1
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	3
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	2
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	

a) Explain which column shows the 12 hour and 24 hour clock

b) Look at point 1.

What do you notice when changing the 12 hour clock to the 24 hour clock?

c) Look at point 2.


What do you notice when changing the 12 hour clock to the 24 hour clock?

d) Look at both number 3s.
What is the difference between these two?




Complete


Question 3

 What do you notice?

A clock shows 13:25 and is $\frac{1}{4}$ hour slow.
Write the actual time in 12-hour time.

What do you know? 

 Can you show your working out?

How could you extend the question? 

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.

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

$11 - 8 = \boxed{}$

Units:

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

$8 \times 11 = \boxed{}$

Units:

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

$8 + 11 = \boxed{}$

Units:

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?

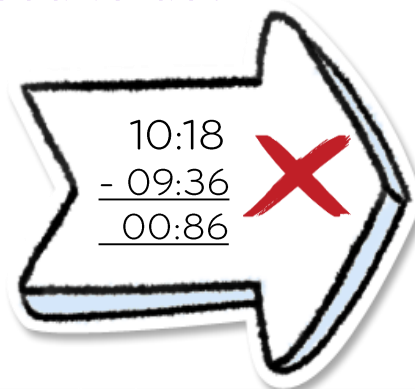
What are the important words and numbers in the question?

What units are in the question?

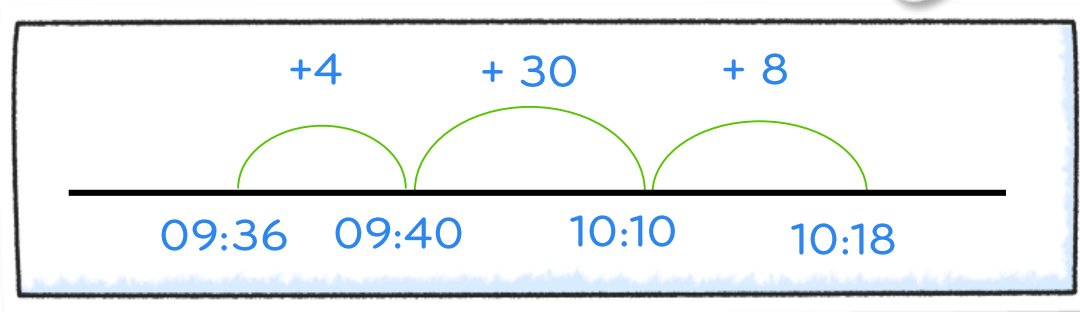
What units do we need for the answer?

What calculation do we need to do?

You cannot subtract times to find the difference.



A time line, like a number line, can be useful when finding durations or to check our answer.




$$4 + 30 + 8 = 42 \text{ mins}$$




Complete

Question 4


 What do you notice?

This table shows when flights take off at an airport.

Flight number	Destination	Take-off time 
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25

 What do you know?

 Can you show your working out?

 How could you extend the question?


How much later does the second flight to Paris take off than the first?



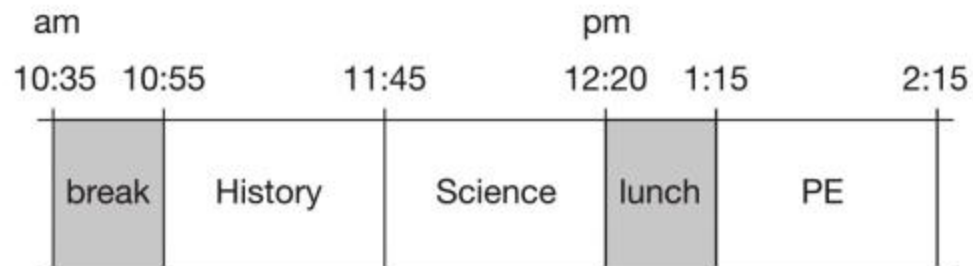



Complete


Question 5

 What do you notice?

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




 What do you know?

 Can you show your working out?

Look at the timetable.




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

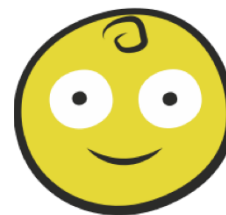


 How could you extend the question?

Let's review:



-  I can read and write roman numerals
-  I can convert between 12-hour and 24-hour clocks
-  I can solve time problems by not subtracting but counting on



Is there something you would like to go over?