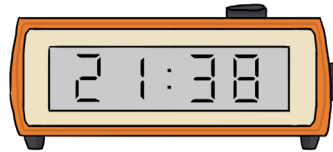


WATER O'CLOCK

Have you ever seen two different types of clocks?

You can tell the time using either clock:

24 HOUR CLOCK	12 HOUR CLOCK
00:00	12:00 MIDNIGHT
01:00	01:00 AM
02:00	02:00 AM
03:00	03:00 AM
04:00	04:00 AM
05:00	05:00 AM
06:00	06:00 AM
07:00	07:00 AM
08:00	08:00 AM
09:00	09:00 AM
10:00	10:00 AM
11:00	11:00 AM
12:00	12:00 PM MIDDAY
13:00	01:00 PM
14:00	02:00 PM
15:00	03:00 PM
16:00	04:00 PM
17:00	05:00 PM
18:00	06:00 PM
19:00	07:00 PM
20:00	08:00 PM
21:00	09:00 PM
22:00	10:00 PM
23:00	11:00 PM



DIGITAL

24 HOUR

On a digital, 24 hour clock the hour comes first and the minutes follow.



ANALOGUE

12 HOUR

On an analogue, 12 hour clock the little hand points to the hour and the big hand points to the minutes.

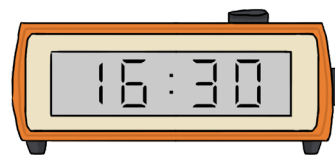
Let's practice, can you tell what the time is using these clocks? Remember to check if it is **AM** or **PM**.

The first one has been done for you.

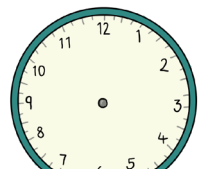
DIGITAL

ANALOGUE

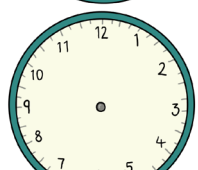
PM



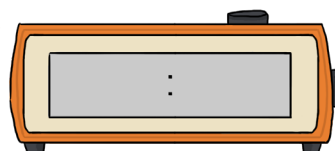
PM



AM



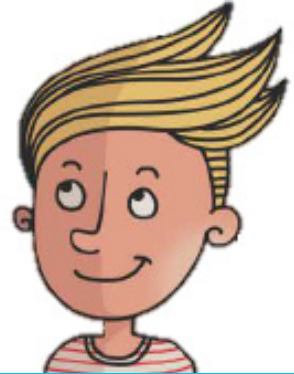
PM



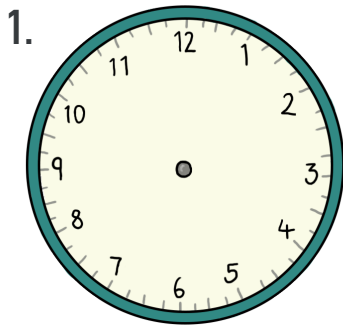
WATER O'CLOCK

This is Arthur, he needs help tracking when he had a drink to see if he's staying hydrated.

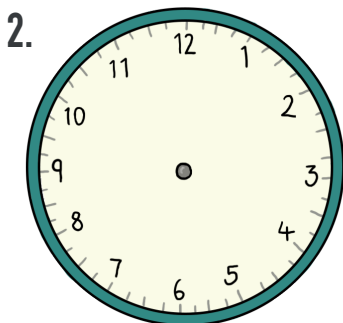
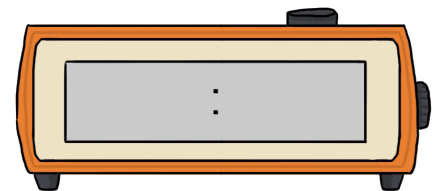
Read the sentences and complete both analogue and digital clocks with the time.



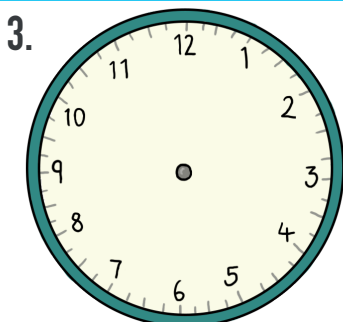
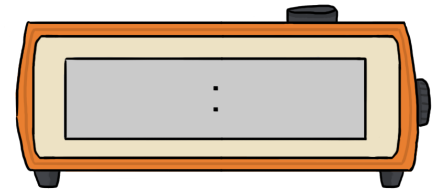
ARTHUR'S DAY



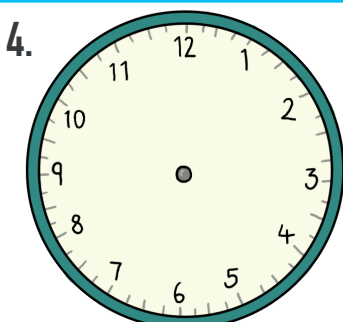
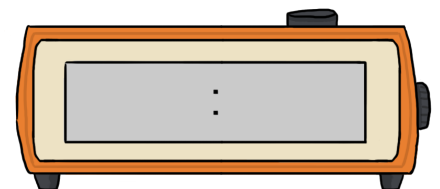
Arthur had 10 hours sleep last night. When he woke up at 7.30am the first thing he did was have a drink of water as he was thirsty. What time did Arthur go to bed?



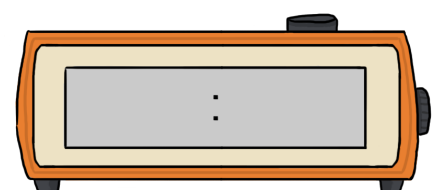
Arthur arrived at school at 8.50am, he had a quick drink after a 20 minute walk to school. What time did he leave the house?



At 10am it's break time, Arthur loves playing football with his friends, breaktime lasts 15 minutes. What time does Arthur go back to class and have a quick drink?

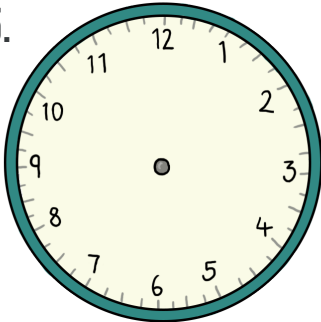


At 12pm Arthur looked at the clock and was excited there was only 30 minutes to go until he could have a drink and eat his lunch. What time can he have his dinner?

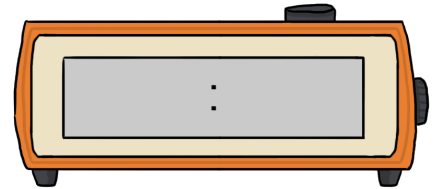


WATER O'CLOCK

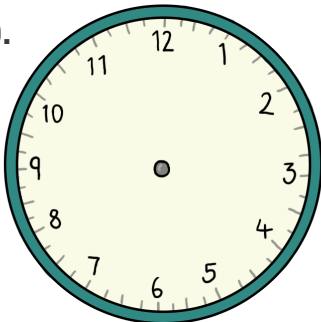
5.



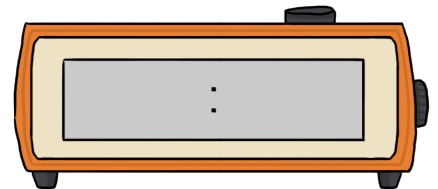
The end of the school day is 3.30pm, Arthur has a quick drink before heading home. In two hours time Arthur has his swimming lesson. What time is his lesson?



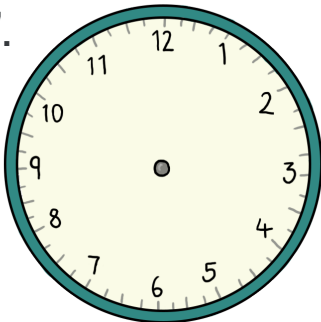
6.



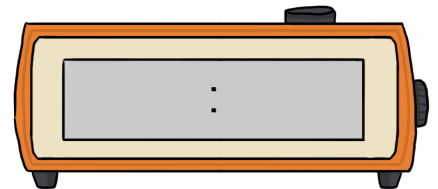
Arthur eats his tea and has a drink at 18:30pm knowing that in 1 and a half hours he must go to bed. What time is Arthur's bedtime?



7.



Just before bed at 19:00pm Arthur had a 4 minute shower, what time did he get out the shower?



How many drinks did Arthur have in the day?

Do you think Arthur is hydrated or dehydrated and why.



WATER METRICS

Millilitres and Litres are ways of how we measure.

Arthur wanted to work out how we can measure water.

Help Arthur match the millilitres to the litres.



1 litre

=

1000ml



When converting L to ml we multiply by 1000 ($\times 1000$).
The digits in the number slide 3 places to the left.

When converting ml to L we divide by 1000 ($\div 1000$).
The digits in the number slide 3 places to the right.

Draw lines to match up the litres and millilitres

ml

500

900

1100

600

1500

1000

1400

1

0.6

1.5

0.5

0.9

1.1

1.4

L

WATER METRICS

Now have a go at completing the following number sentences.

8,000 ml	=	L
700 ml	=	L
12,000 ml	=	L

3 L	=	ml
6.5 L	=	ml
1.25 L	=	ml

Remember 1L = 1000ml. Do your answers look right?

Complete the sums below. You will need to make sure both measures are the same before calculating.

E.g. 2.5L + 1,500ml = _____ ml.

You would need to convert the 2.5L into ML to work out the sum (2,500ml + 1,500ml = 4,000ml)

3.5 L + 2000 ml	=	ml
6500 ml + 4.5 L	=	ml
1.75 L + 1250 ml	=	ml

8 L + 2000 ml	=	L
1500 ml + 3.5 L	=	L
4.75 L + 3250 ml	=	L

WATER METRICS

Arthur has decided he needs to make sure he stays hydrated.

He's filled some cups up with tap water and needs your help to work out how much there is in total.

Top tip: 1000ml = 1 litre

Use this **KEY** to see how much is in each cup



100ml



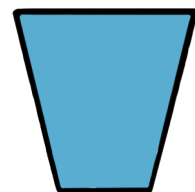
200ml



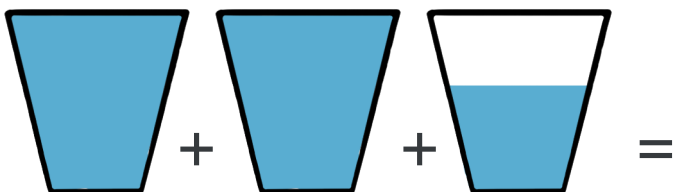
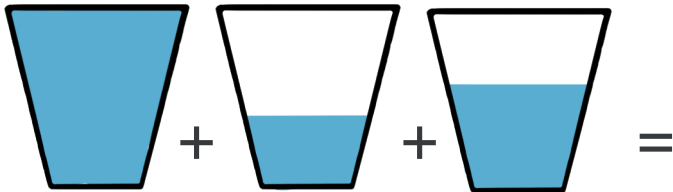
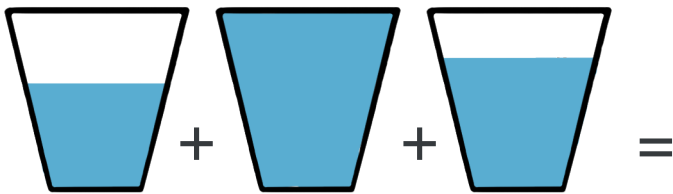
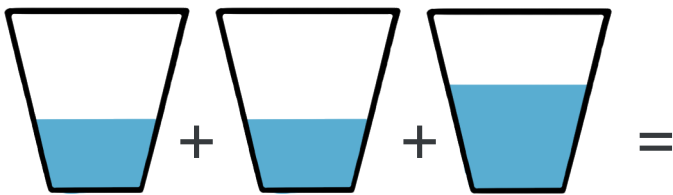
350ml



450ml



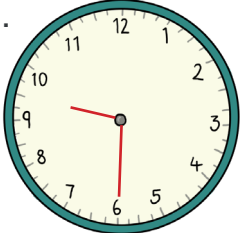
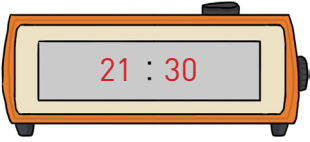
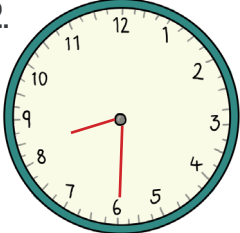
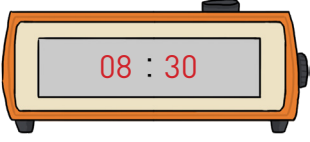
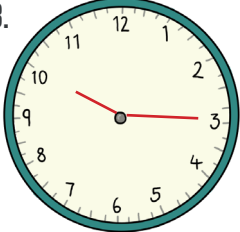
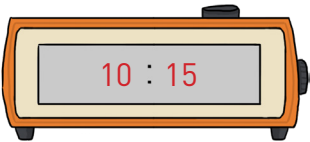
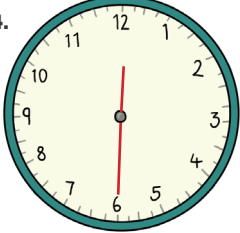
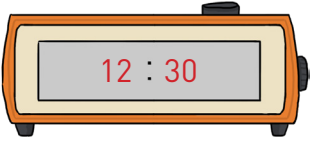
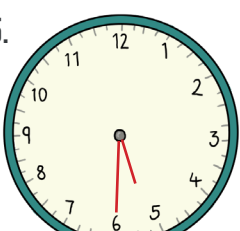

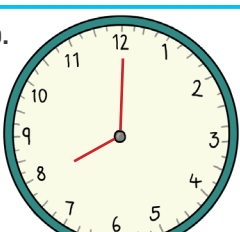
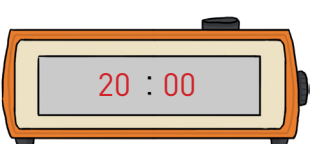
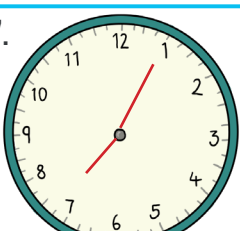
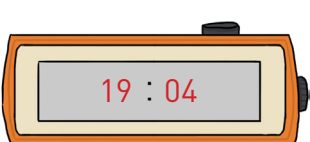
500ml



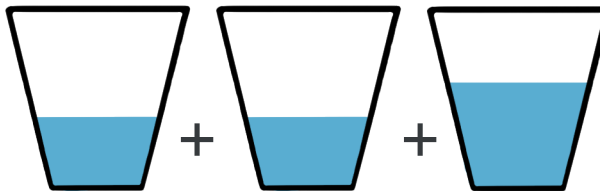
Do you know how many cups of water should Arthur be drinking per day?
_____ or _____ ml/litres

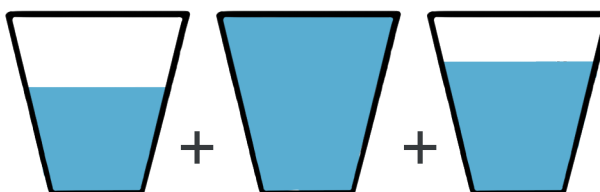
WATER O'CLOCK ANSWER SHEET

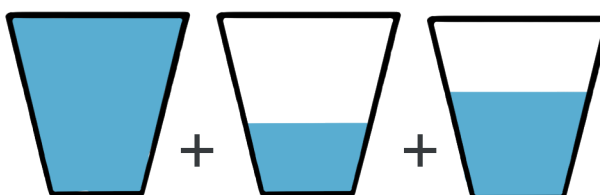
ARTHUR'S DAY

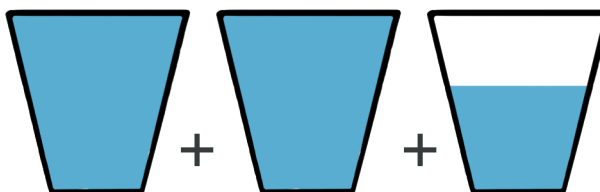
1.		Arthur had 10 hours sleep last night. When he woke up at 7.30am the first thing he did was have a drink of water as he was thirsty. What time did Arthur go to bed?	
2.		Arthur arrived at school at 8.50am, he had a quick drink after a 20 minute walk to school. What time did he leave the house?	
3.		At 10am it's break time, Arthur loves playing football with his friends, breaktime lasts 15 minutes. What time does Arthur go back to class and have a quick drink?	
4.		At 12pm Arthur looked at the clock and was excited there was only 30 minutes to go until he could have a drink and eat his lunch. What time can he have his dinner?	
5.		The end of the school day is 3.30pm, Arthur has a quick drink before heading home. In two hours time Arthur has his swimming lesson. What time is his lesson?	
6.		Arthur eats his tea and has a drink at 18:30pm knowing that in 1 and a half hours he must go to bed. What time is Arthur's bedtime?	
7.		Just before bed at 19:00pm Arthur had a 4 minute shower. What time did he get out the shower?	


WATER METRICS ANSWER SHEET


$$+ + = 400 \text{ ml}$$


$$+ + = 1050 \text{ ml}$$


$$+ + = 800 \text{ ml}$$


$$+ + = 1200 \text{ ml}$$


$$+ + = 1150 \text{ ml}$$

Do you know how many cups of water should Arthur be drinking per day?
8 CUPS or 2000 ml/ 2 litres

WATER METRICS ANSWER SHEET

ml

500

900

1100

600

1500

1000

1400

1

0.6

1.5

0.5

0.9

1.1

1.4

L

8,000 ml = 8 L

700 ml = 0.7 L

12,000 ml = 12 L

3 L = 3,000ml

6.5 L = 6,500ml

1.25 L = 1,250ml

3.5 L + 2000 ml = 5,500 ml

6500 ml + 4.5 L = 11,000 ml

1.75 L + 1250 ml = 3,000 ml

8 L + 2000 ml = 10 L

1500 ml + 3.5 L = 5 L

4.75 L + 3250 ml = 8 L