Welcome to Year 3 live maths lesson

The session will begin at **11.15**

Turn your camera and microphone off please

Ark Curriculum+

Monday 22.2.21
Live maths

Year 3 Unit 8: Time

Lesson 1: Developing conceptual understanding of time

Mathematics
Mastery

Maths Meeting Monday

22.2.21

Count in 5's with confidence

- Subtract 20 from 200.
  - 180
- What is the total of 38 and 41?
  - 79
- Double 23
  - 46
- What is half of 60?
  - 30

Which are the even numbers.

How do you know?

72

46

34

41

456

4 hundreds, 5 tens 6 ones

208

517

Count in 5's with confidence

Do now

Count in 5's with confidence

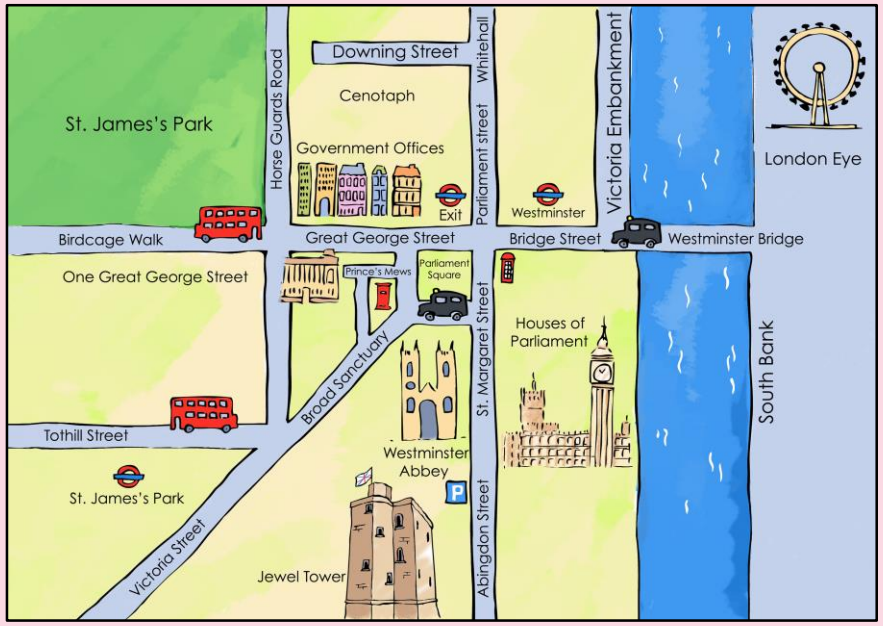
Do now

Count in 5's with confidence

Do now

Introducing the problem

Mr Slade is running a school trip to London. There are lots of things that he would like to do with his class but there is only so much time in the day



I will understand that clocks are measuring devices with more than one scale

Star Words

scale

quarter

hour hand

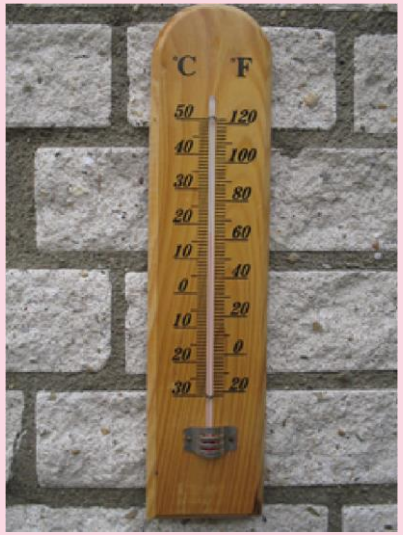
minute hand

___ minutes to ___

___ minutes past ___

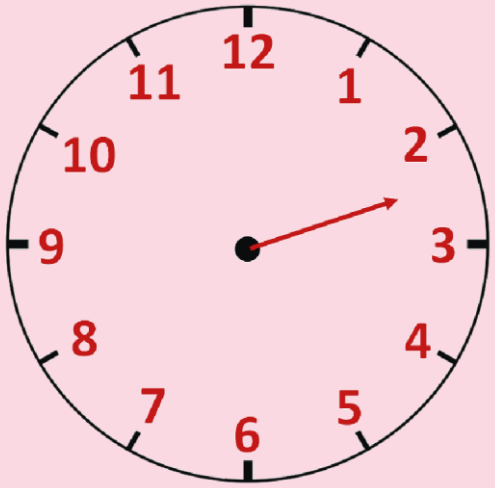
What are these used for?
How do we use them?

New Learning

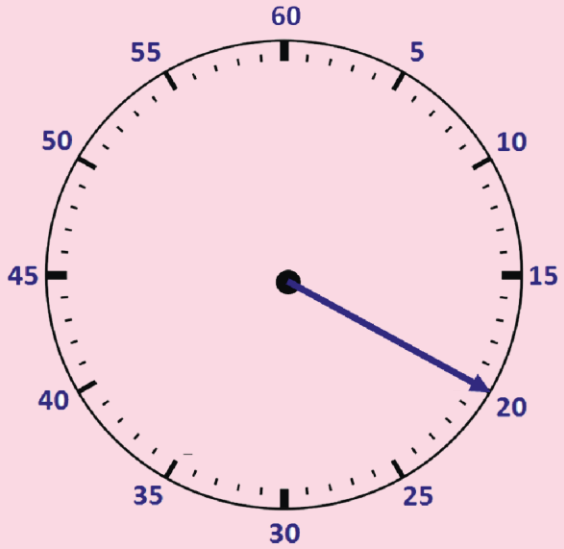


What does each clock face show us?

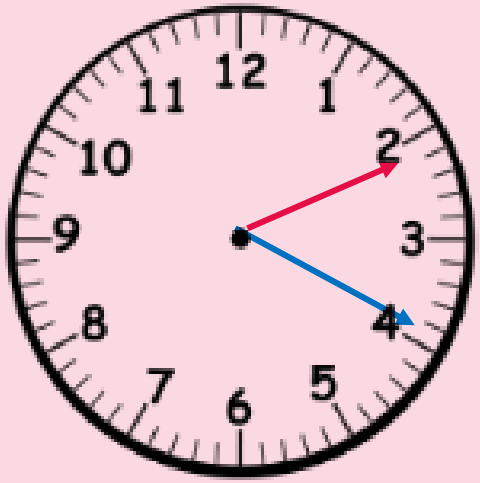
What is the same?
What is different?



The numbers and the hand that reads the hours.



The numbers and the hand that reads the minutes.

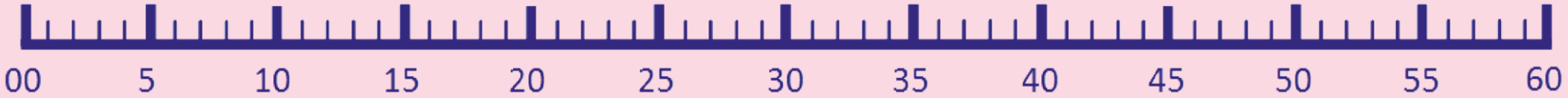


A clock which shows us the hours and the minutes.

If we unravel the number scales on a clock this is what we would see.

The hours.

The minutes

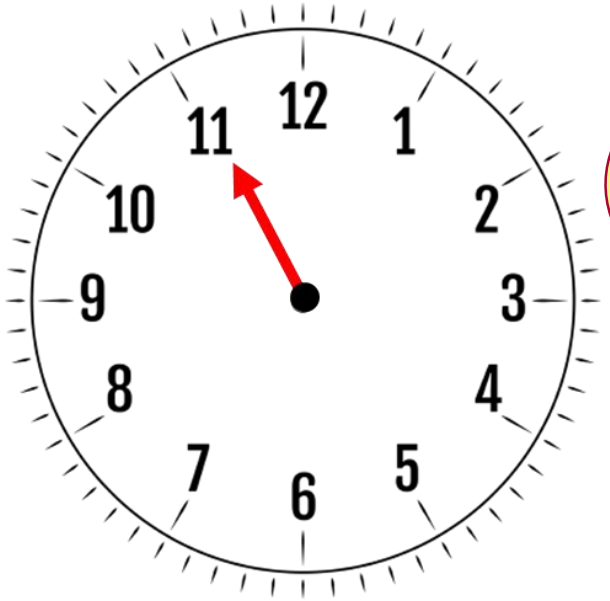


12
1
2
3
4
5
6
7
8
9
10
11
5 minutes

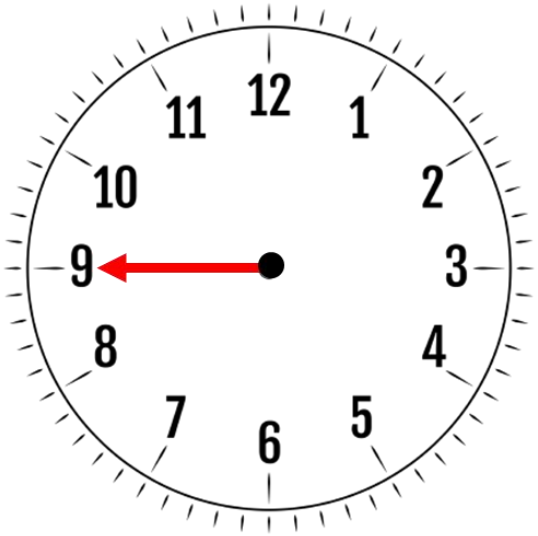
60
55
5
50
10
45
15
40
20
35
25
30
12
1
2
3
4
5
6
7
8
9
10
11

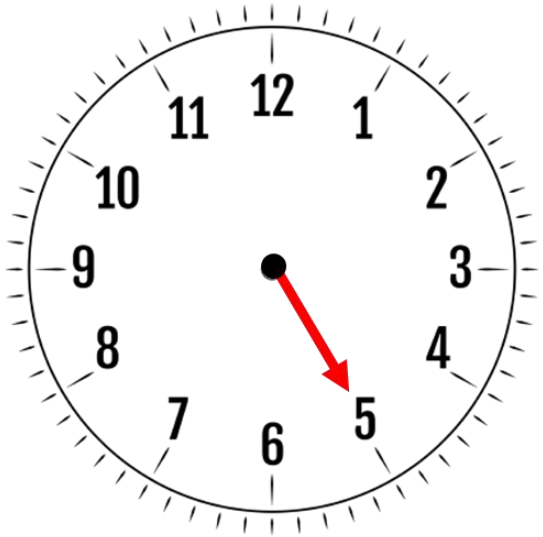
These clocks only have the hour hand.

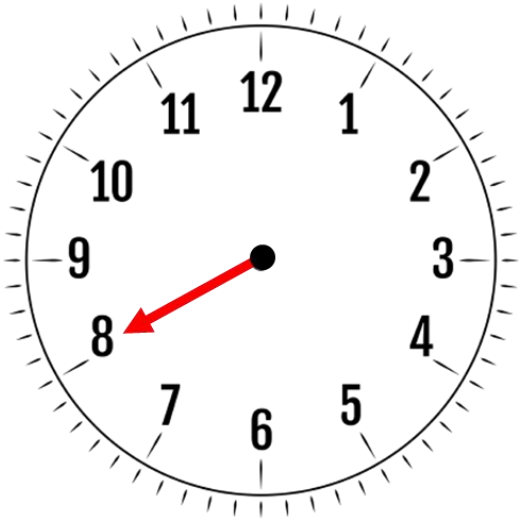
Can you write down the time you think each clock might be showing?



I think this could be 11 O Clock because the hour hand is pointing directly at the number 11.







We can split the clock into 4 equal parts.
What do we call 4 equal parts?

Quarters!

So when the minute hand points to the numbers on each quarter we know that clock reads these times;

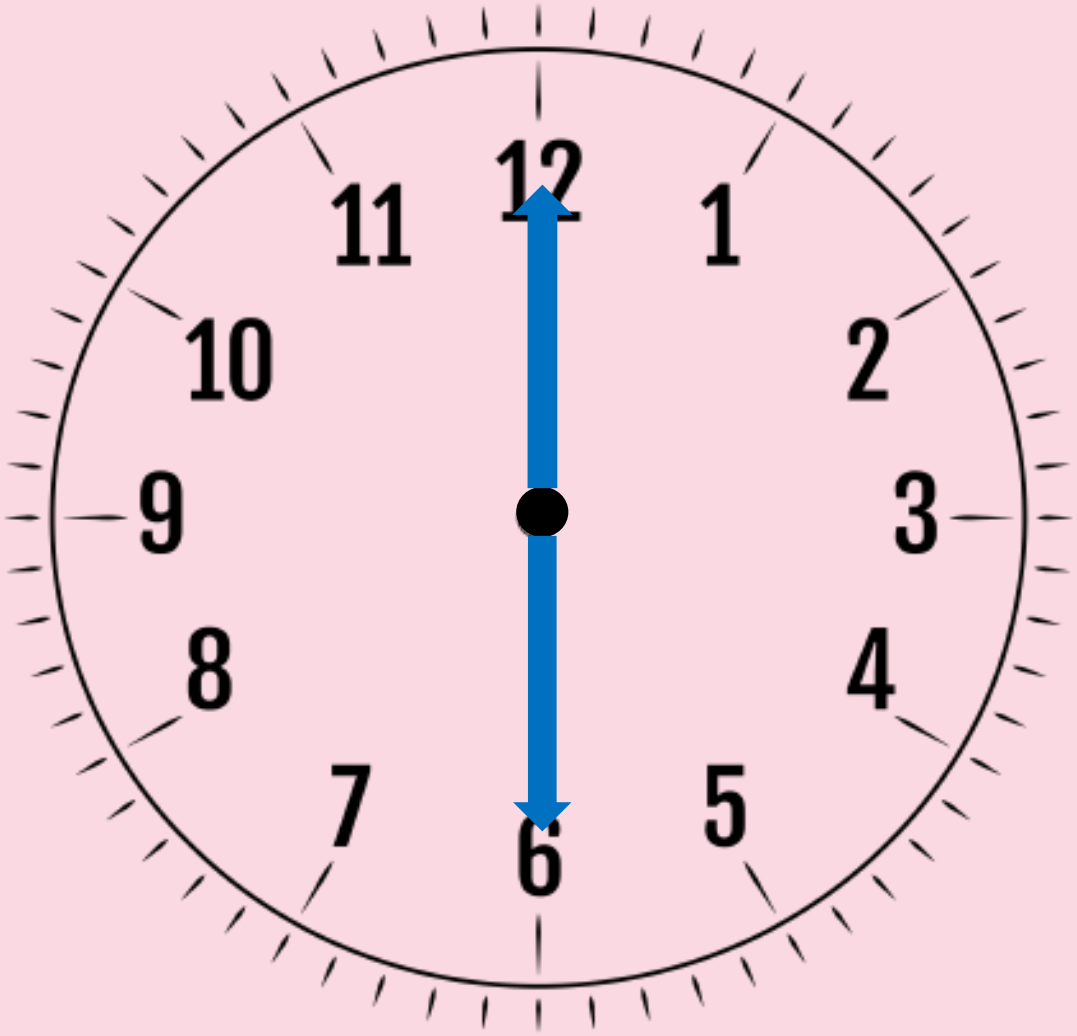
3 It is now **quarter past** the hour

So when the minute hand points to the numbers on each quarter we know that clock reads these times;

It is now **half past** the hour

It is now **quarter to** the hour

What do we know about ‘minutes’ hand?

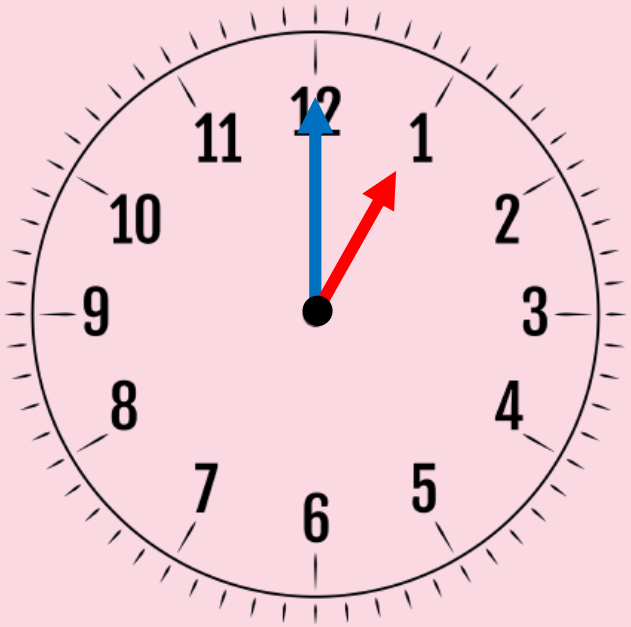


When the minute hand points straight up to the 12.
What does this say?

When the minute hand points straight down to the 6, it is HALF WAY around the clock.
What does this say?

How many minutes are there in one hour?
So that’s how long does the minute hand take to travel all the way round the clock.

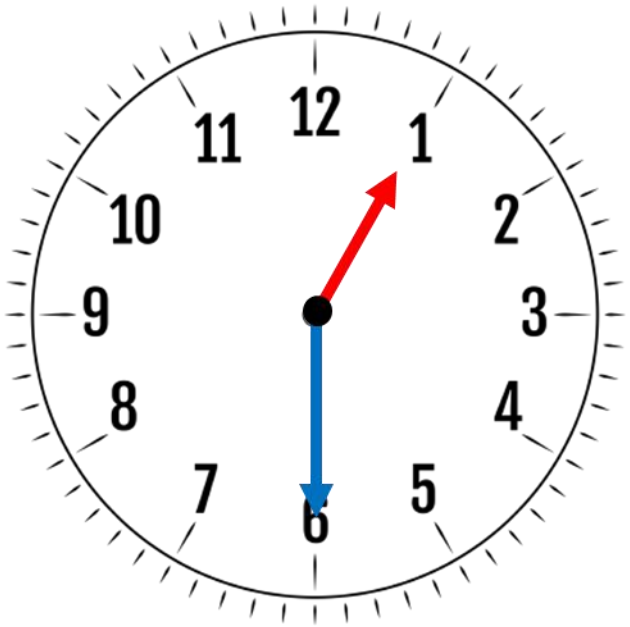
We do

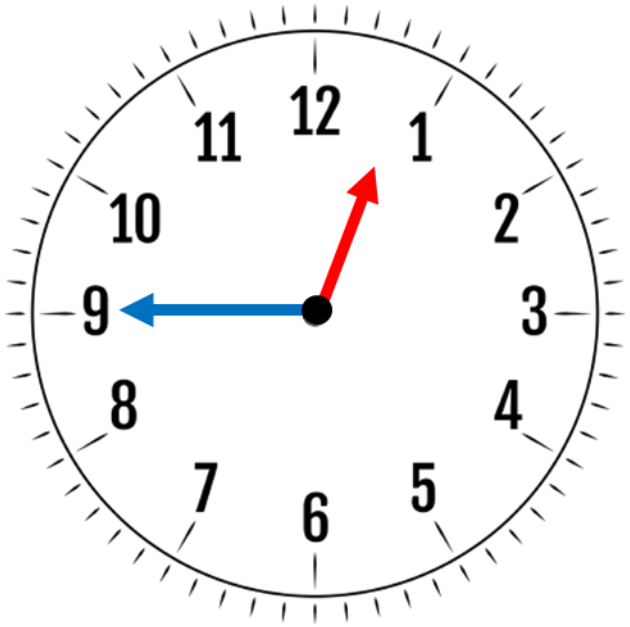


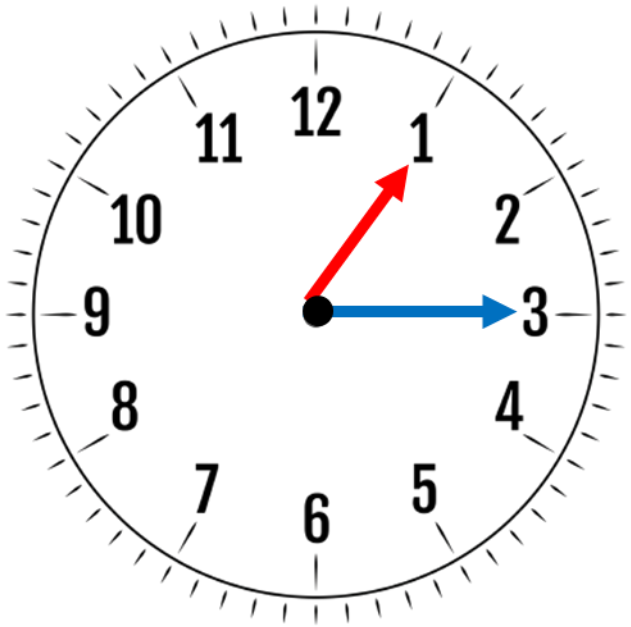
What is the time on this clock?

Look at the hour hand.
Look at the minute hand.

You do







What is the time on this clock?

Look at the hour hand.
Look at the minute hand.

minutes to

minutes past

Have a think, what does these clocks tell us?

They don't have an hour hand but we can read the minutes.

Are they minutes past or minutes to the hour?

A

B

Assignment

Go and find your assignment in the general folder.

Choose your chilli.

Click the Editing button so you can type straight onto your task sheet. If you can't write on the assignment sheet you can copy it onto paper and take a photograph of it.

Fast finish challenge

If it takes 2 minutes to run around the playground
How many seconds is that?

If it takes 4 minutes to walk home,
How many seconds is that?

If it takes 10 minutes to read my book,
How many seconds is that?

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Ark Curriculum+

Tuesday 23.2.21
Live maths

Year 3 Unit 8: Time

: Reading analogue time with increasing accuracy

Mathematics
Mastery

Maths Meeting
Tuesday

23.2.21

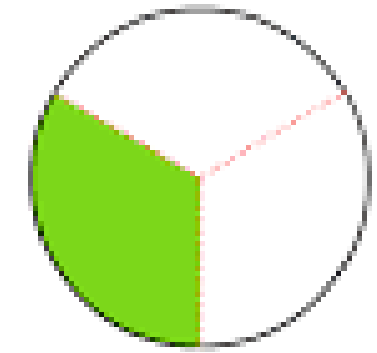
1 2 3 4 5 6 7 8 9

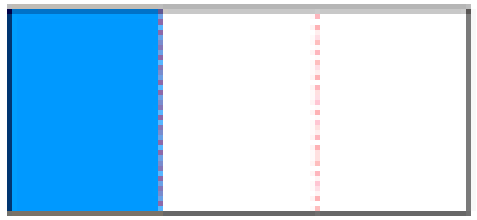
- How many different ways can you make 15 using these digits?

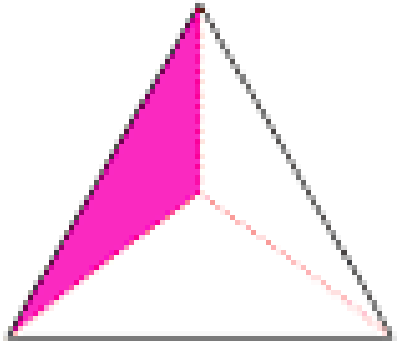
With 2 digits?
With 3 digits?

CHALLENGE – can you use a different operation?

What fraction do these shapes show?

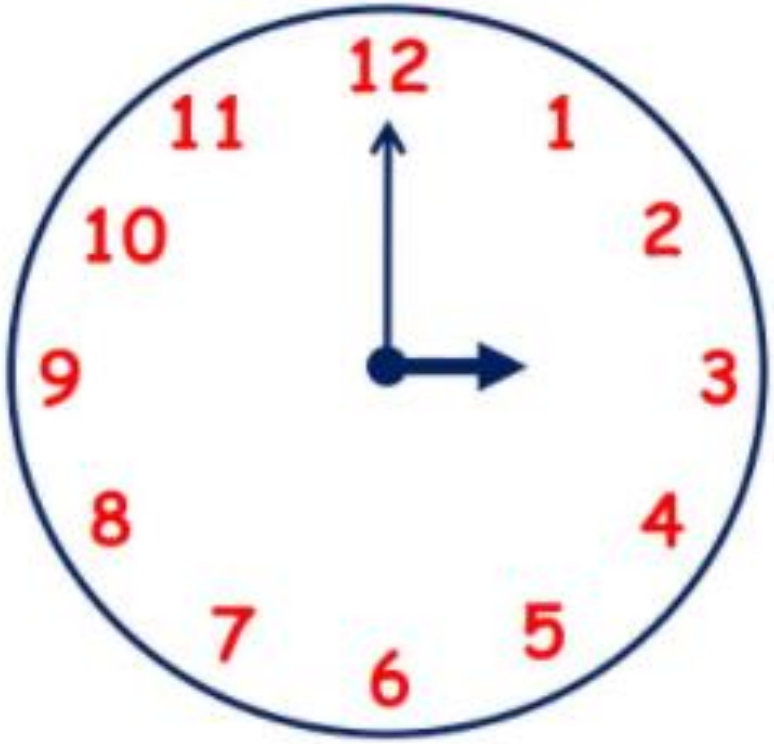


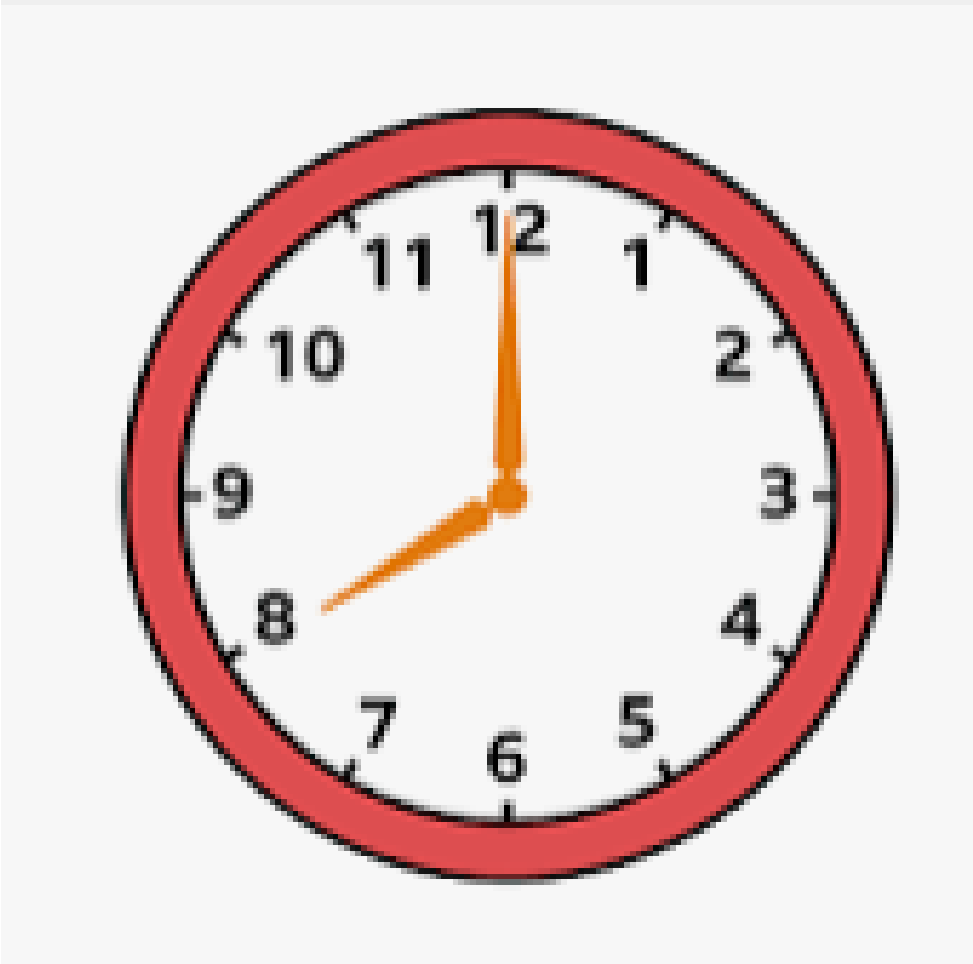




How do you know?

What's the time Mr Wolf?





Do now

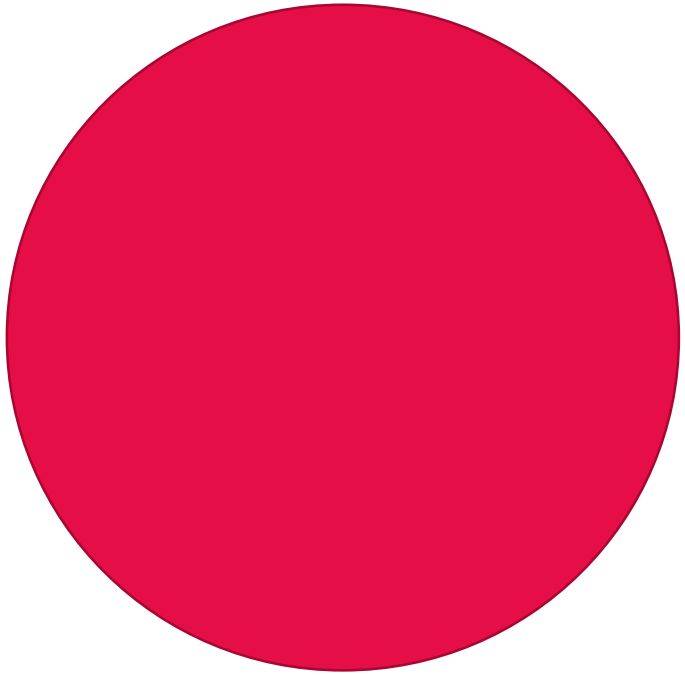
8 x 1 =

8 x 10 =

8 x 100 =

8 x 1000 =

What is the secret?



I will know how to read analogue times

Star Words

analogue

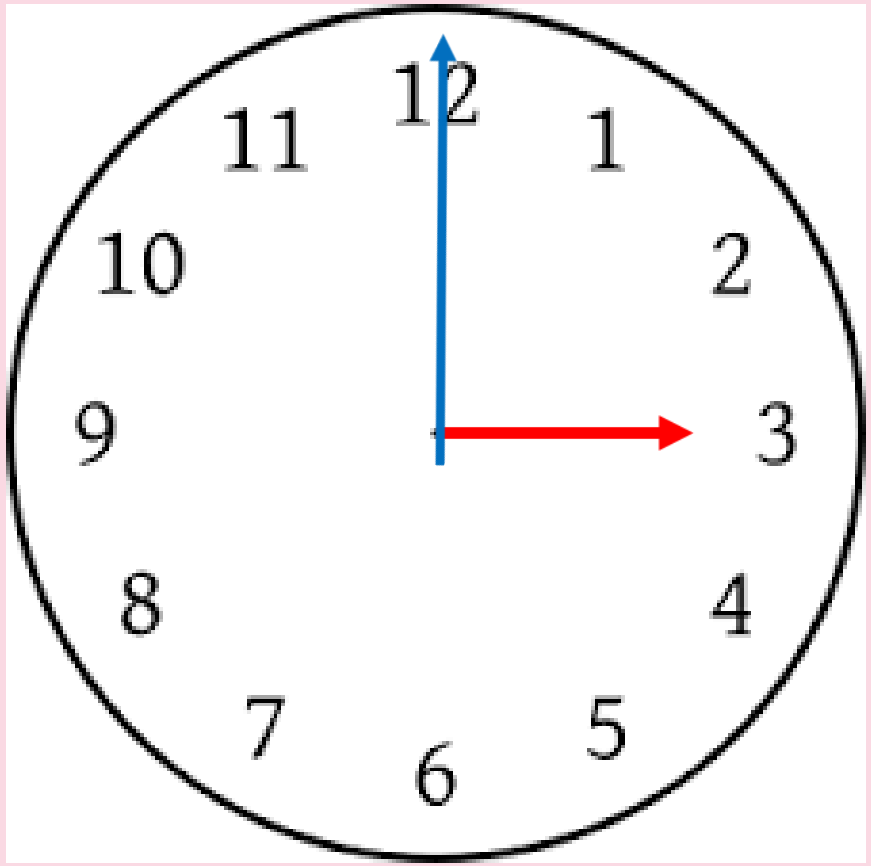
big hand (minute hand)

little hand (hour hand)

O'clock half past

quarter past

Which hand tells us the hour?

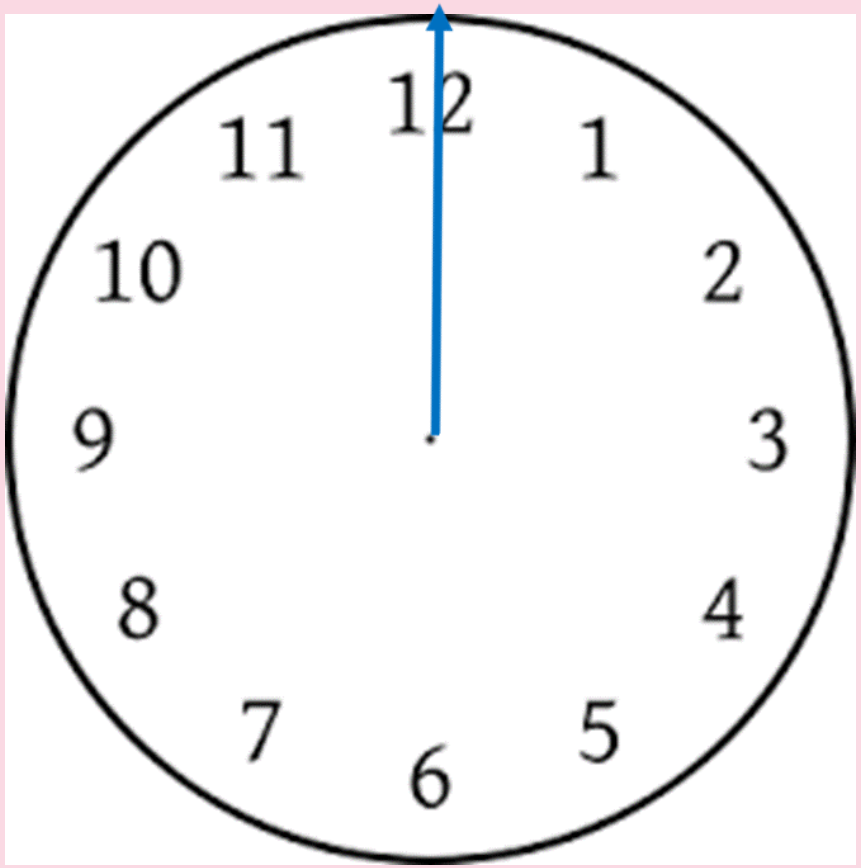


The little hand.

Which hand tells us the minutes?

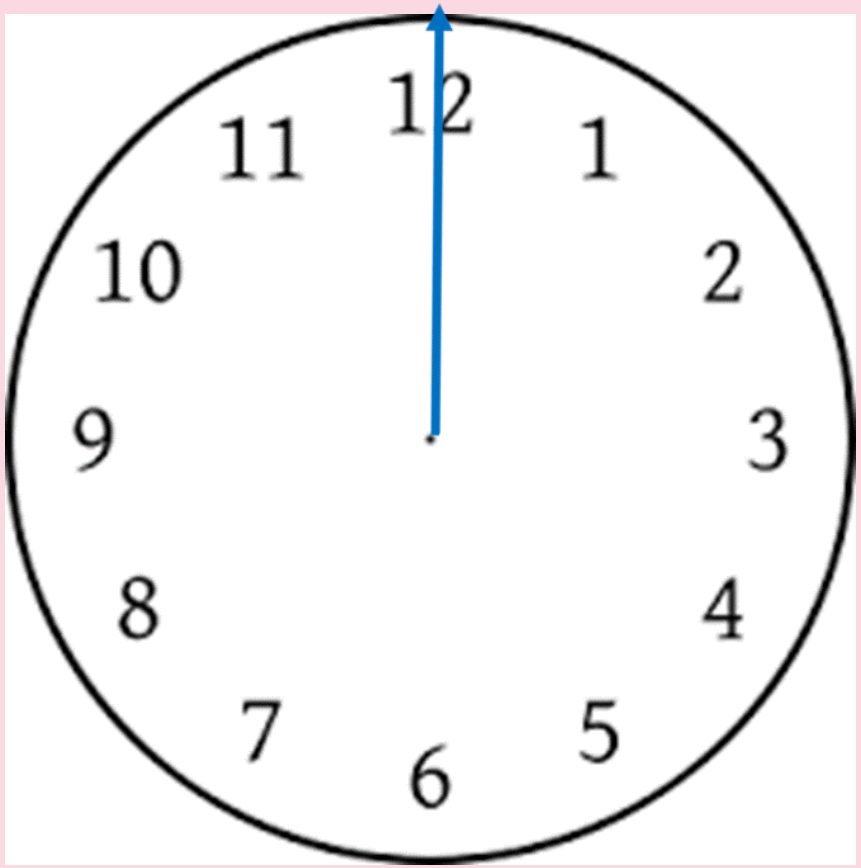
The big hand.

When the big minute hand points straight up to the 12 it is O'clock



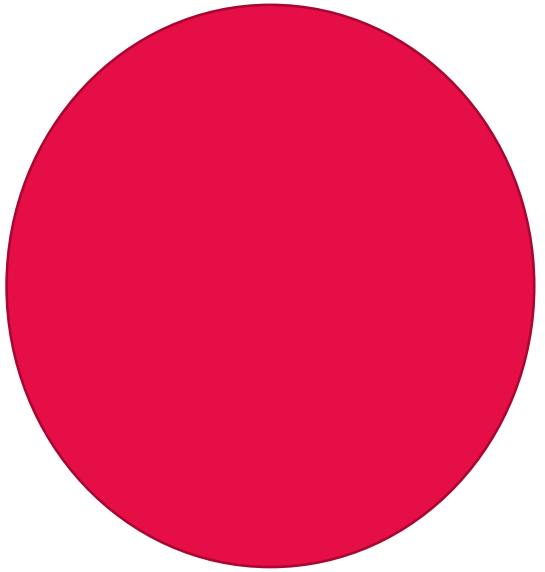
The little hand reads the hour.
So whichever number the little hand points to that is the hour.

When the big minute hand points straight up to the 12 it is O'clock

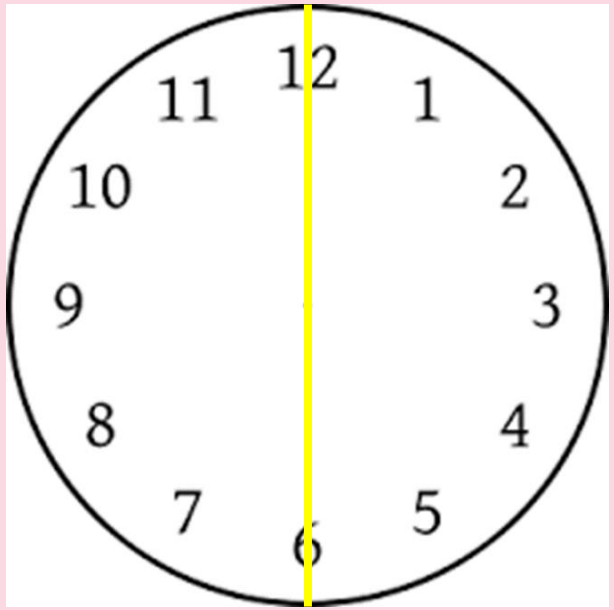


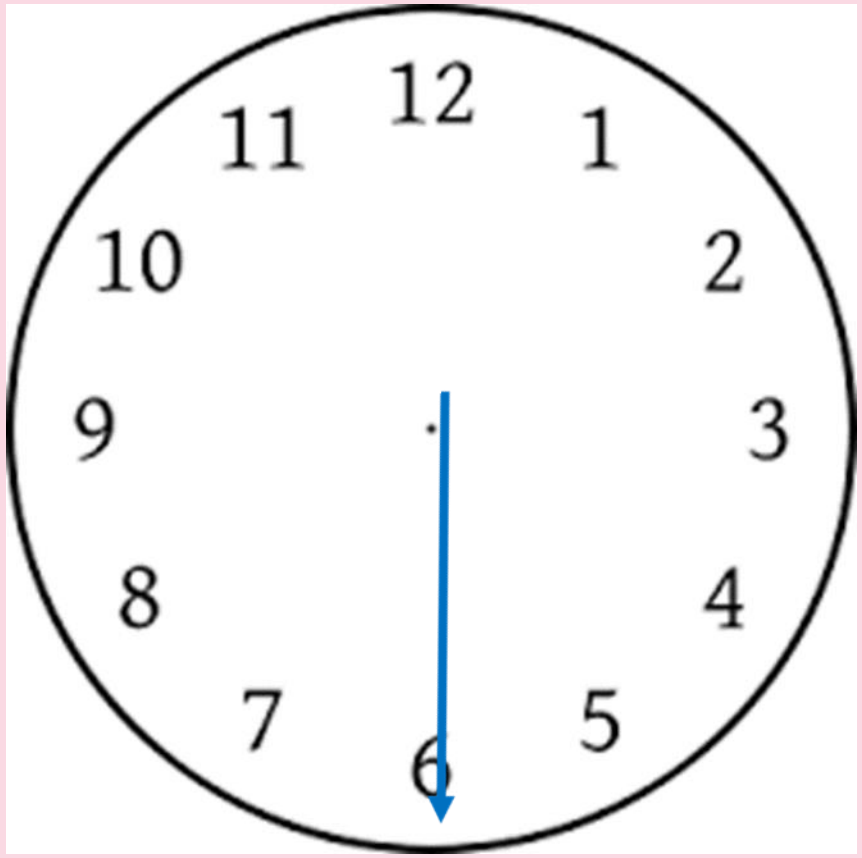
Let's practise telling O'clock times.

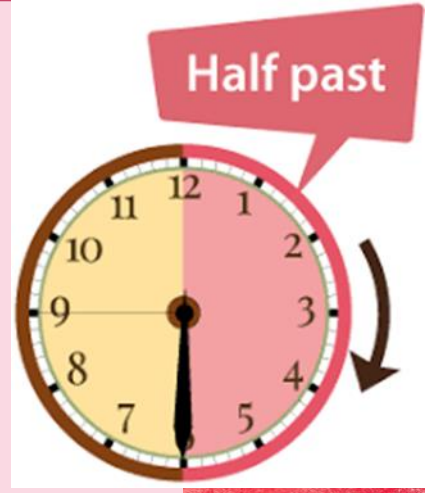
You do



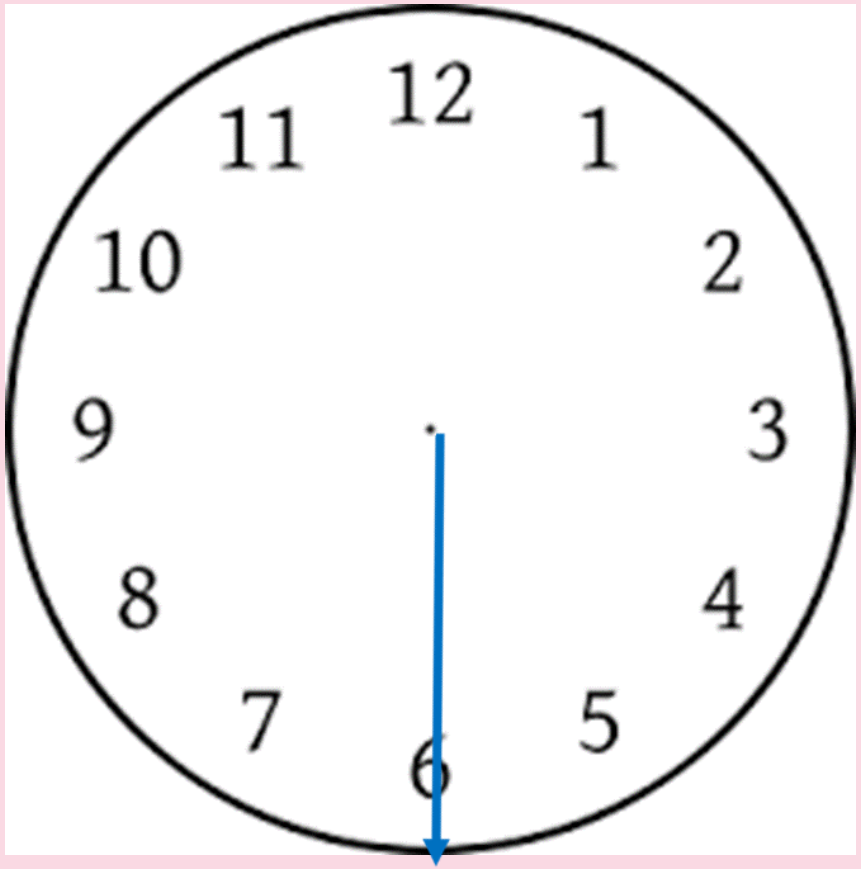
When the big minute hand travels HALF way around the clock it now reads half past

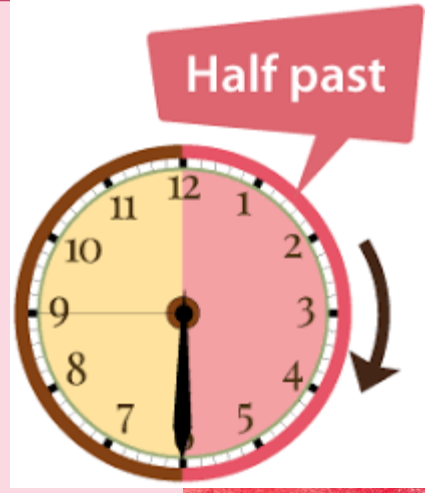






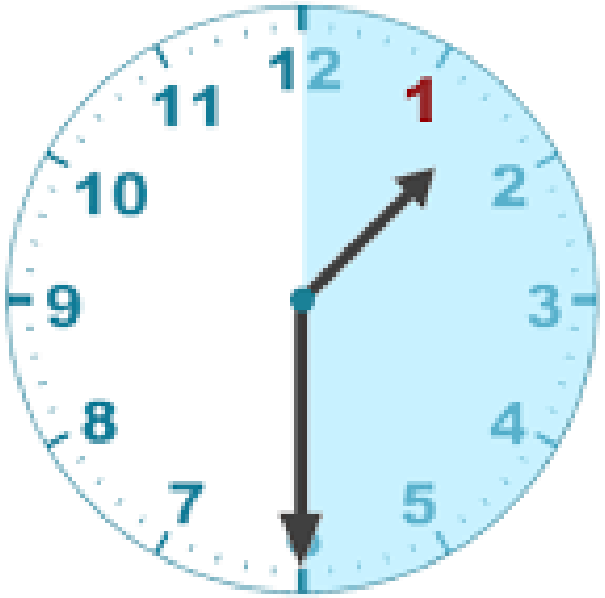
When the big minute hand travels HALF way around the clock it now reads half past

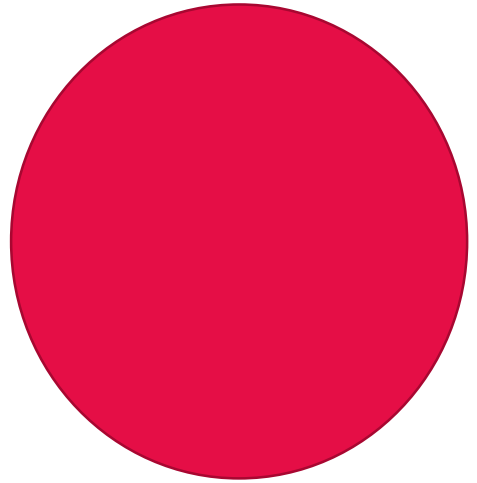




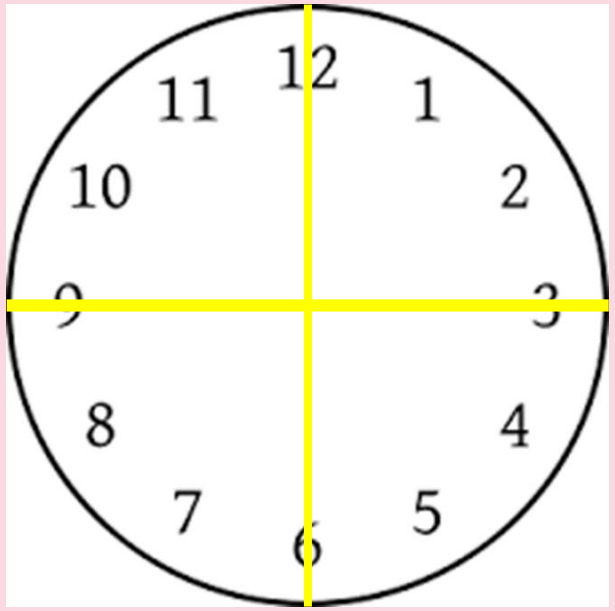
Let’s practise telling
Half past times.

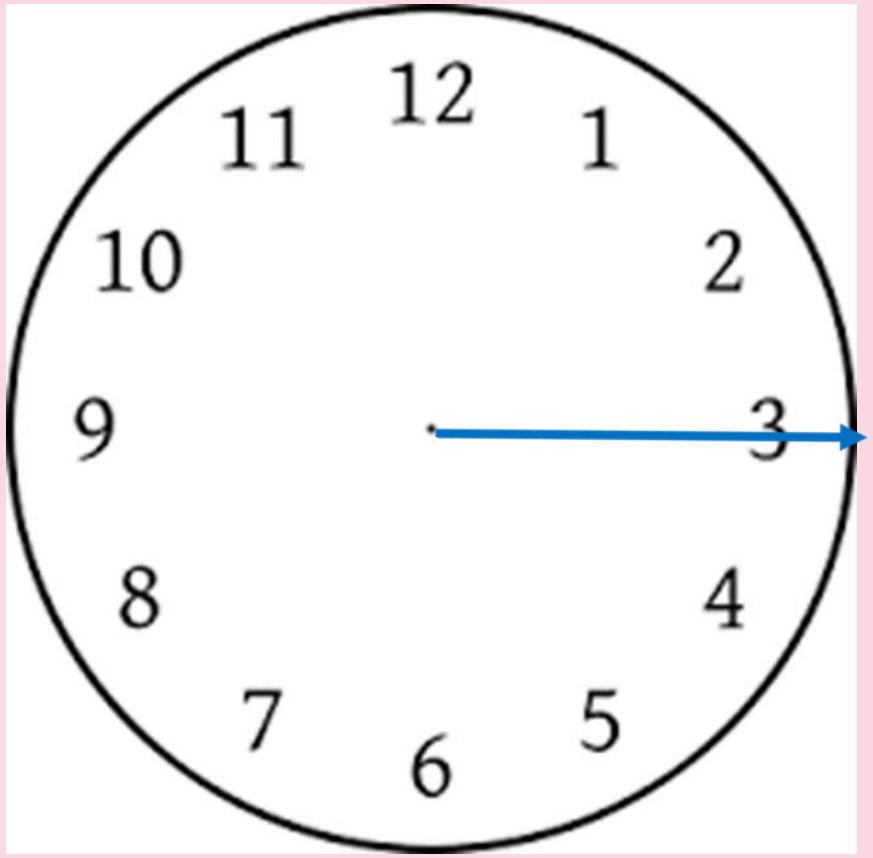
You do



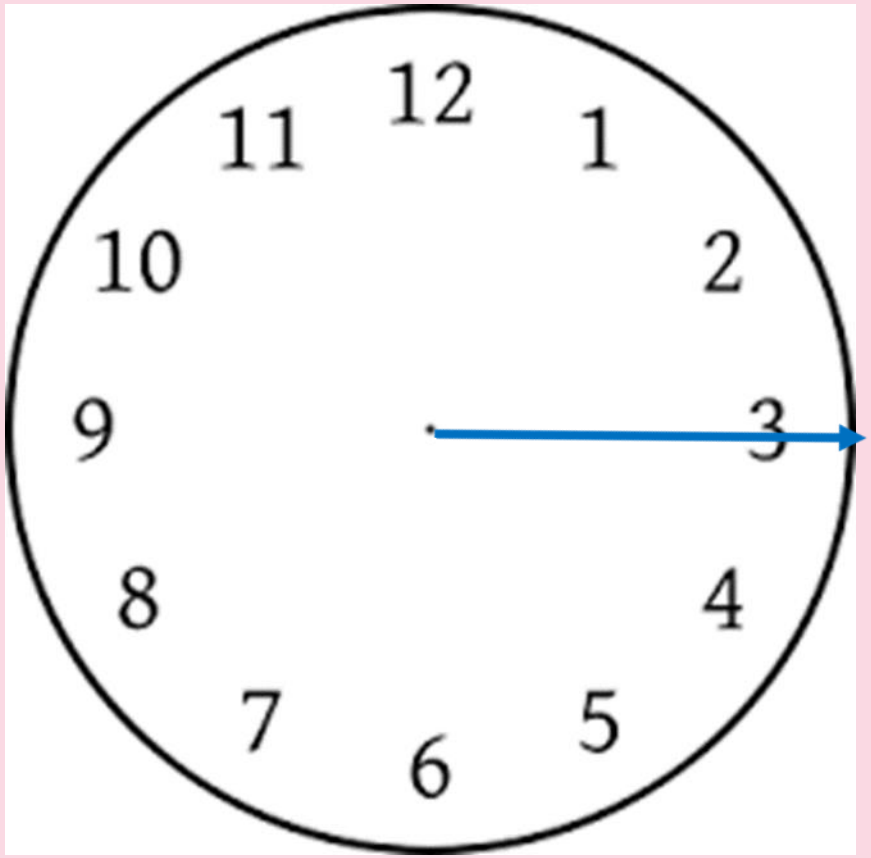


When the big minute hand travels a quarter way around the clock it now reads quarter past



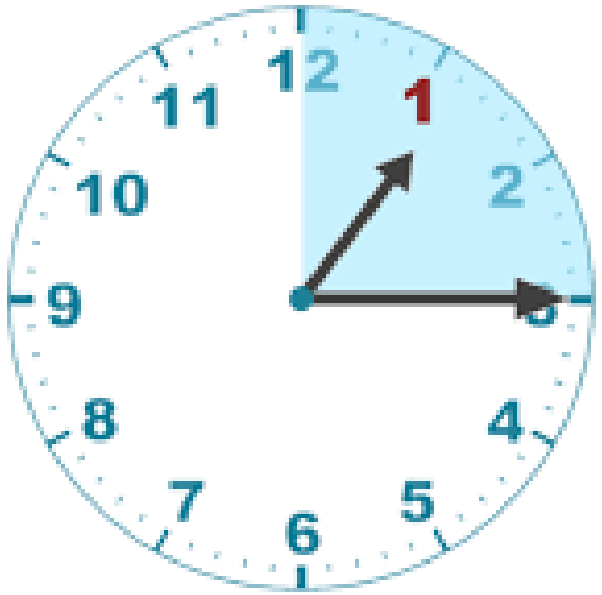


When the big minute hand travels a quarter way around the clock it now reads quarter past



Let's practise telling Half past times.

You do



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Ark Curriculum+

Wednesday 24.2.21
Live maths

Year 3 Unit 8: Time

: Reading analogue time with increasing accuracy

Mathematics
Mastery

Do now

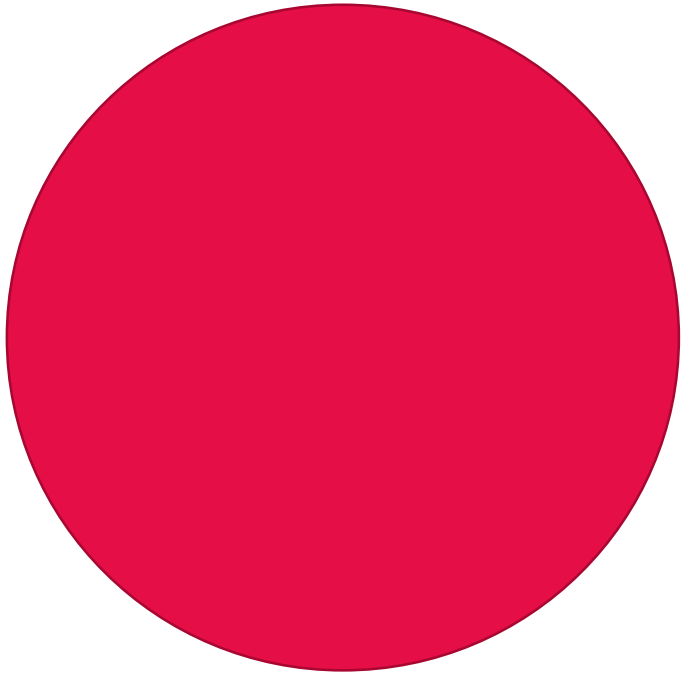
5 x 1 =

5 x 10 =

5 x 100 =

5 x 1000 =

What is the secret?



I will know how to read analogue times to the nearest minute

Star Words

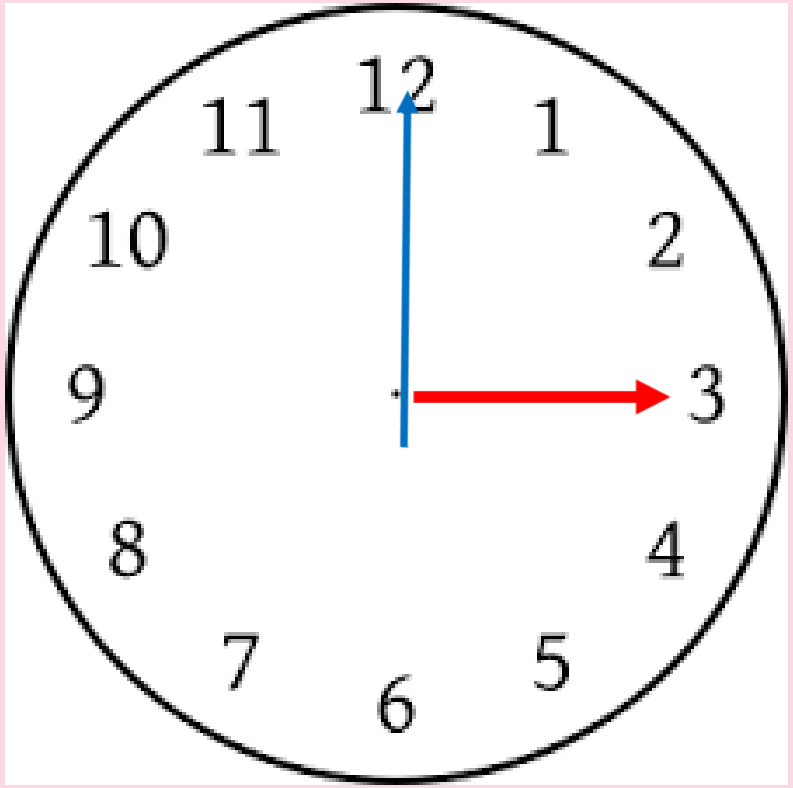
analogue

nearest minute

big hand (minute hand)

little hand (hour hand)

interval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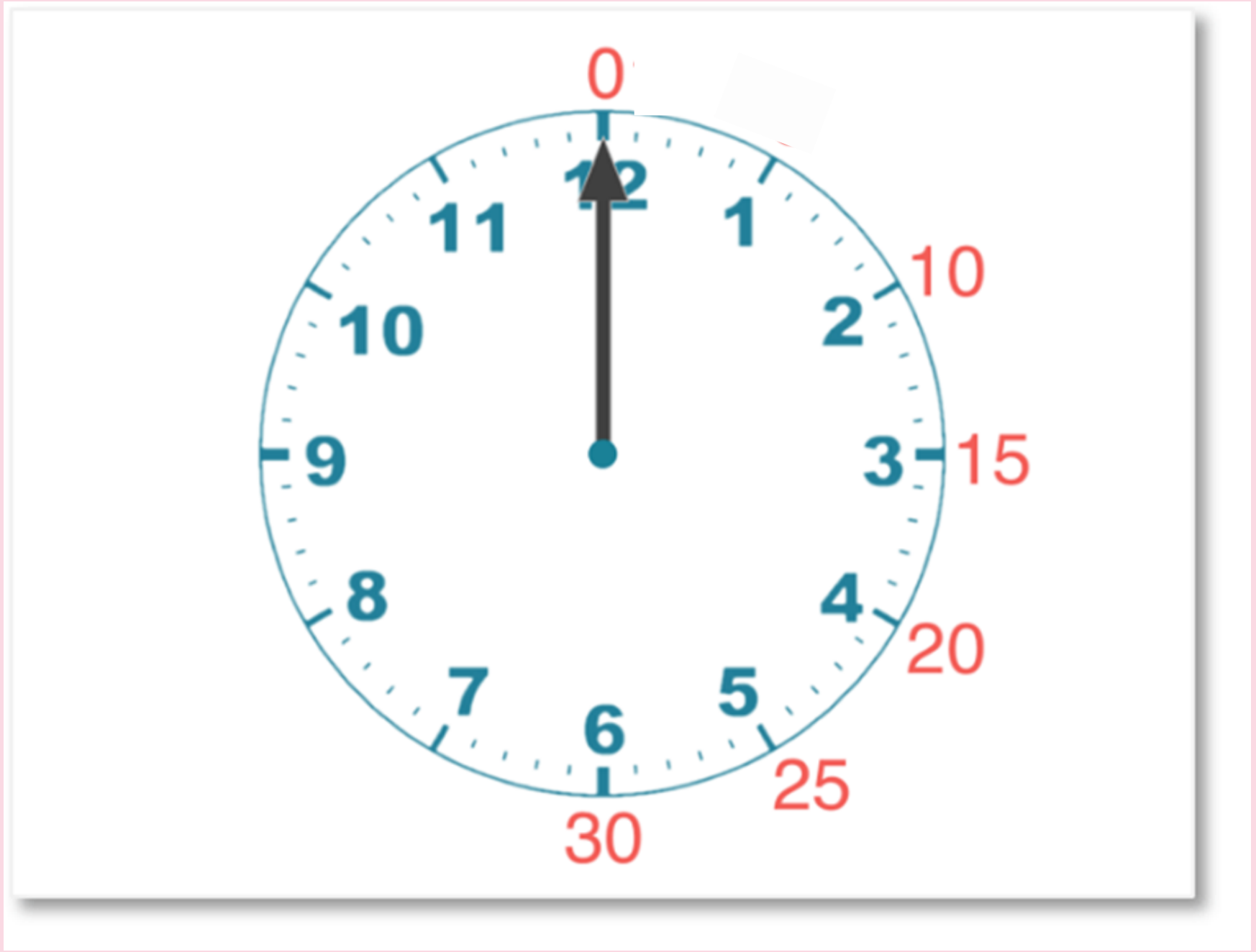
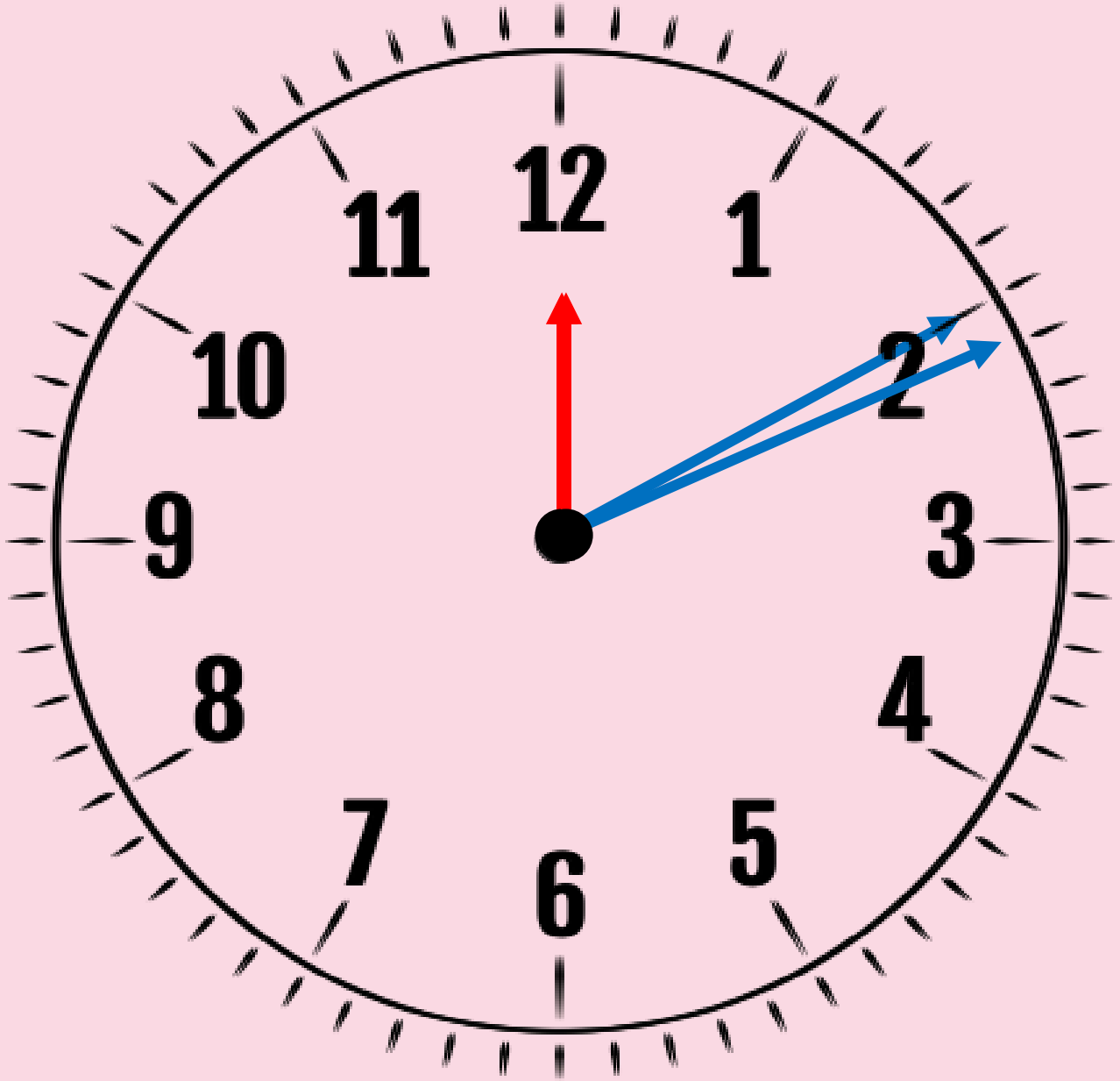


We will be counting the minutes today.

What is the time?



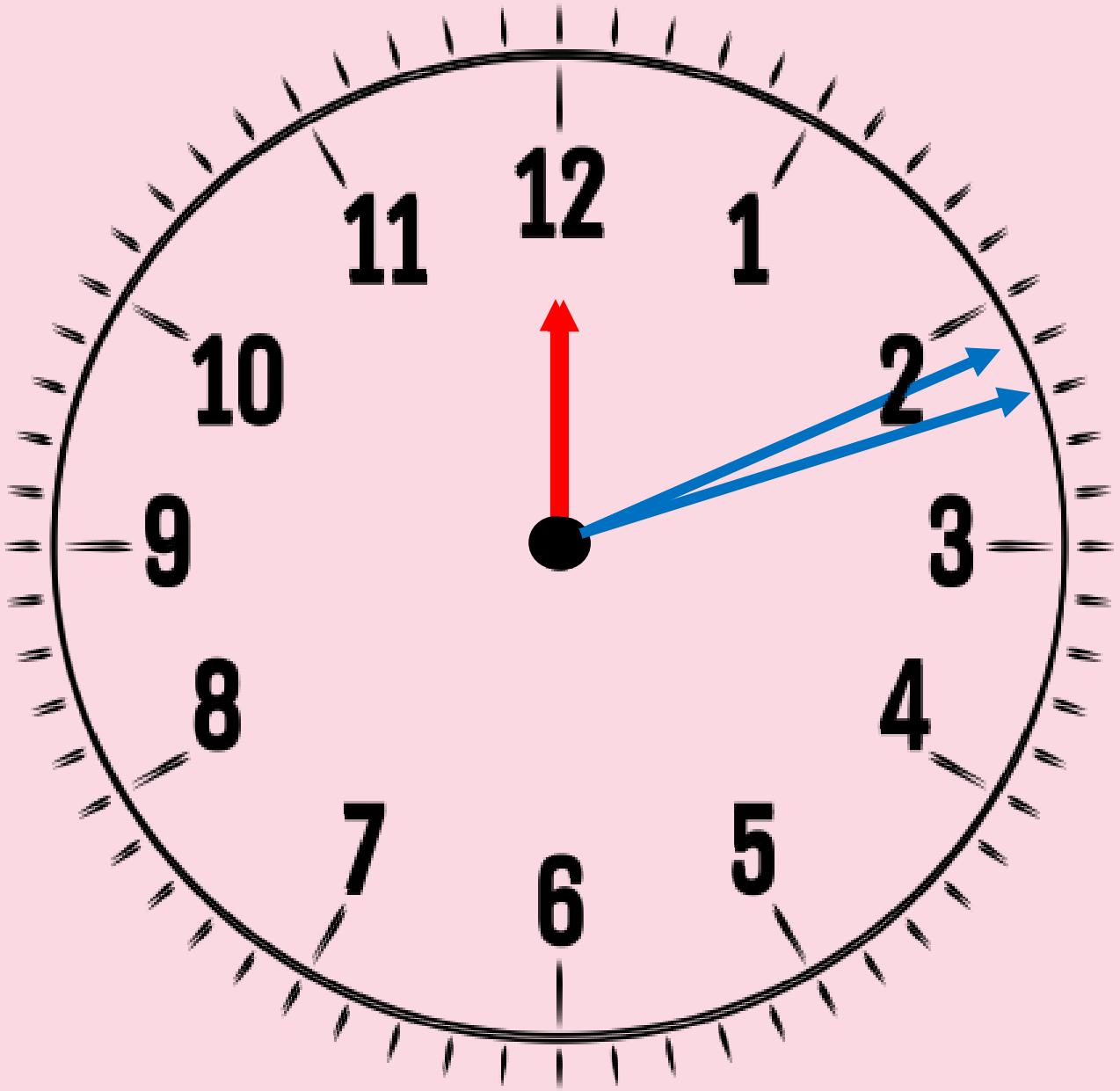
It is ten past 12

? What is one more than 10 minutes?

? *What is the time now?*

It is eleven minutes past 12.

What is the time?

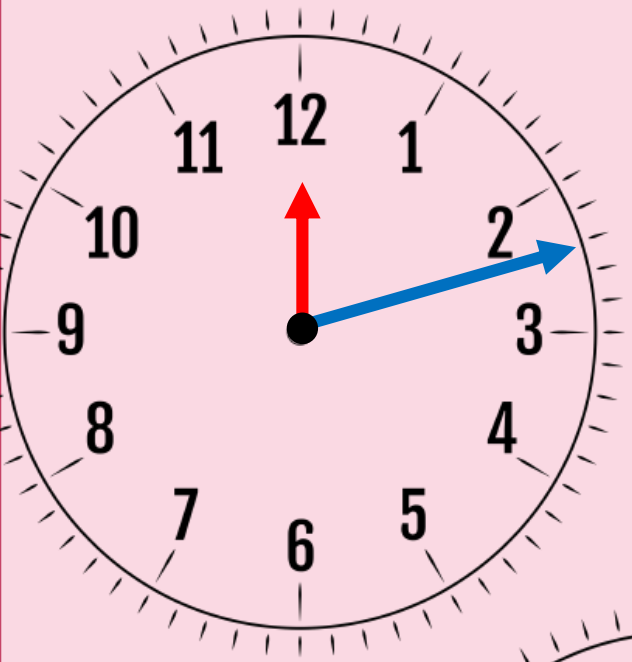


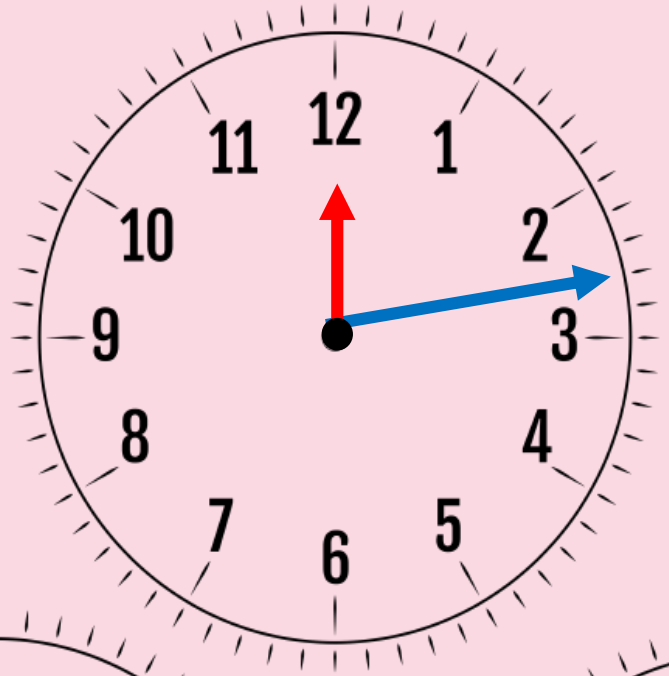
It is eleven minutes past 12

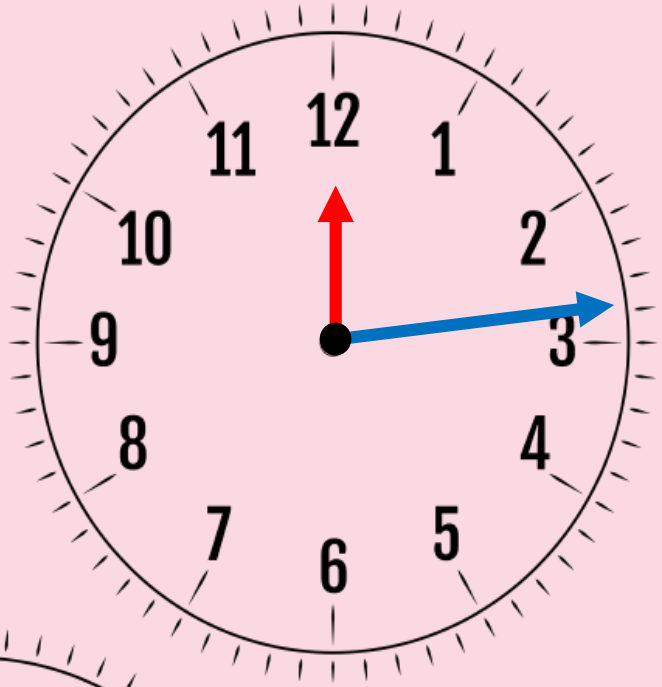
In one more minute is will be...

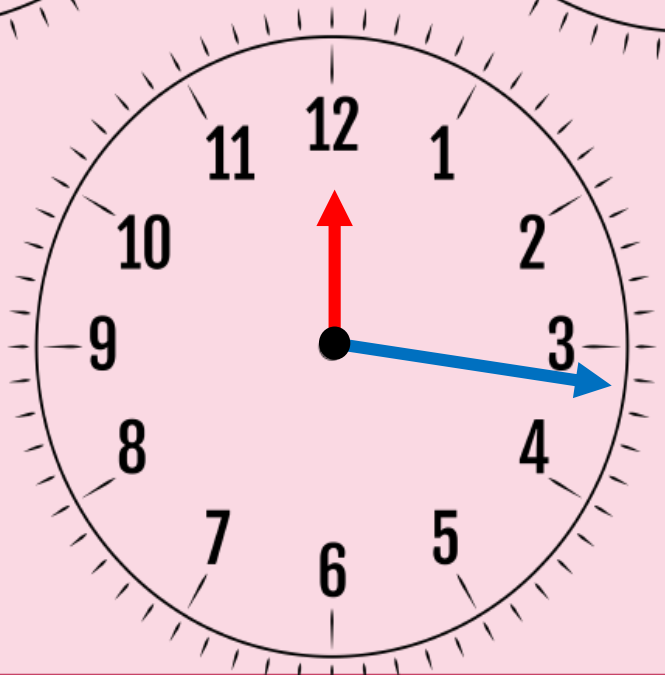
Twelve minutes past 12.

The minute hand moves one more along the scale for every minute



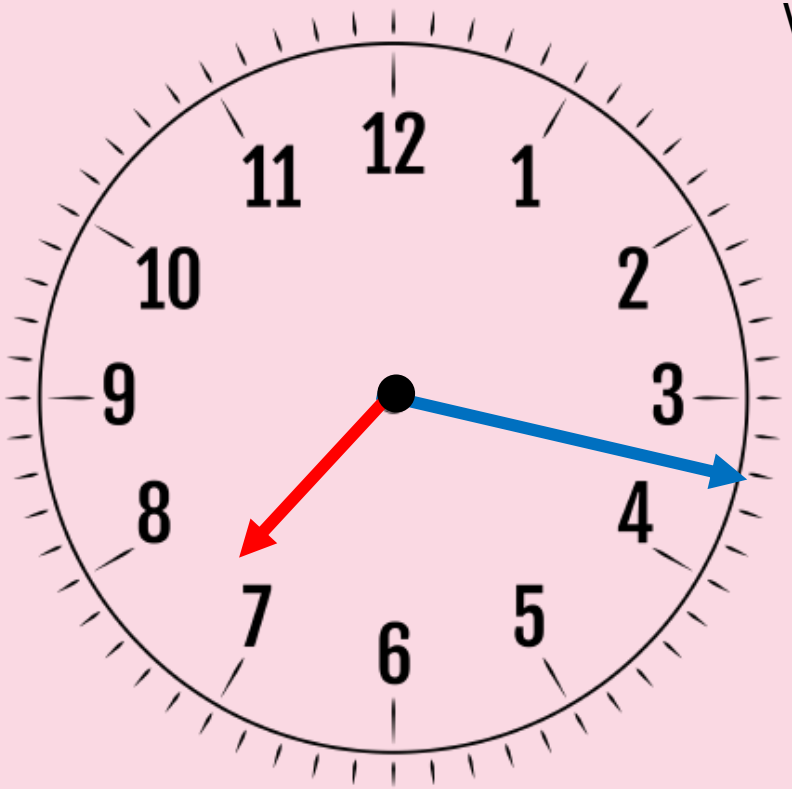






Count with me

We do

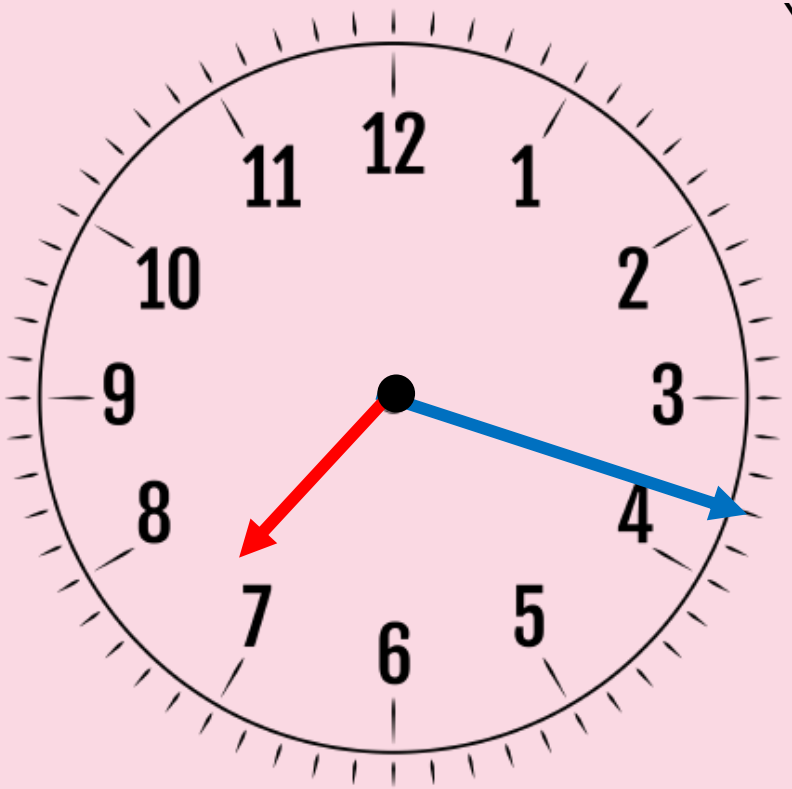


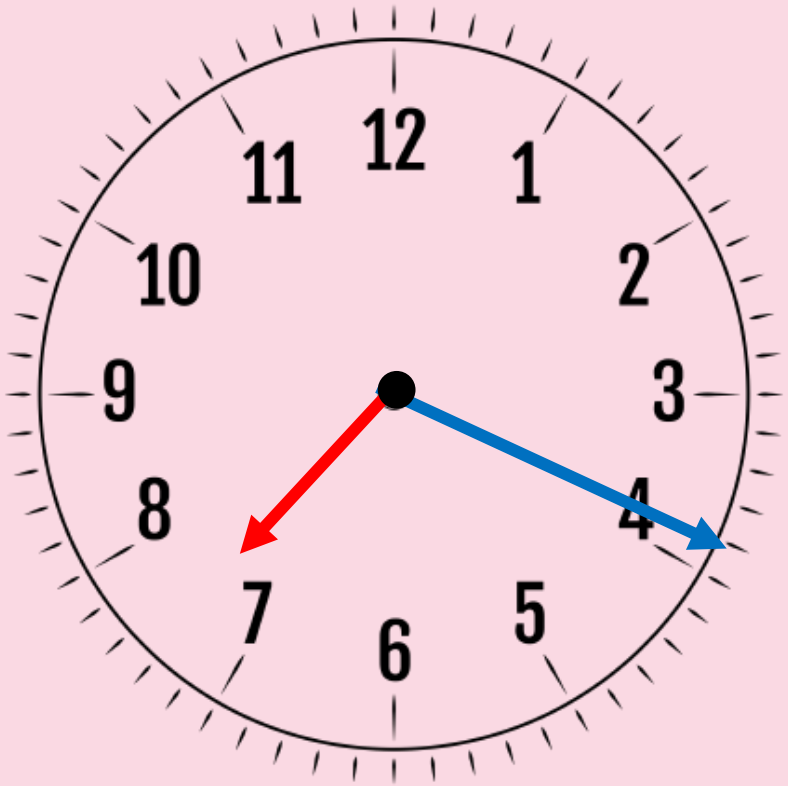
The hour hand is between 7 and 8 so the time is between 7 o'clock and 8 o'clock.

The minute hand is indicating minutes past because it is before half past.
5, 10, 15, 16, 17 minutes past. It is 17 minutes past seven.

Yes, I have checked it and you are correct. The time is 17 minutes past seven.

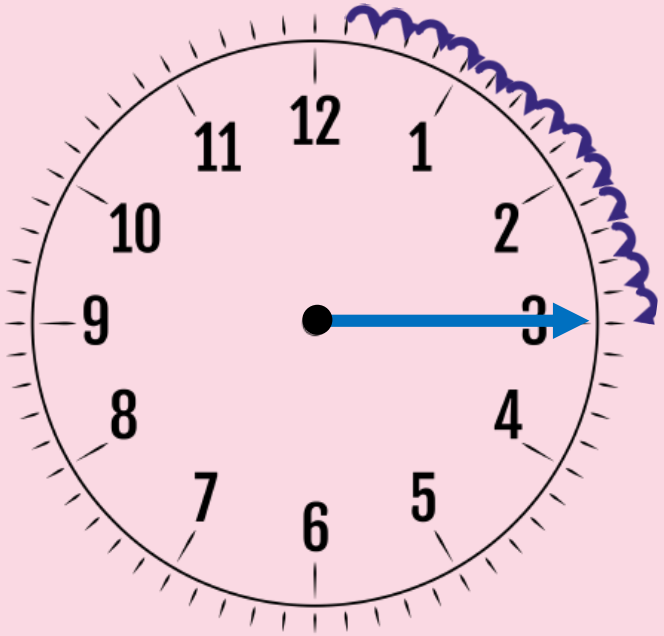
You do



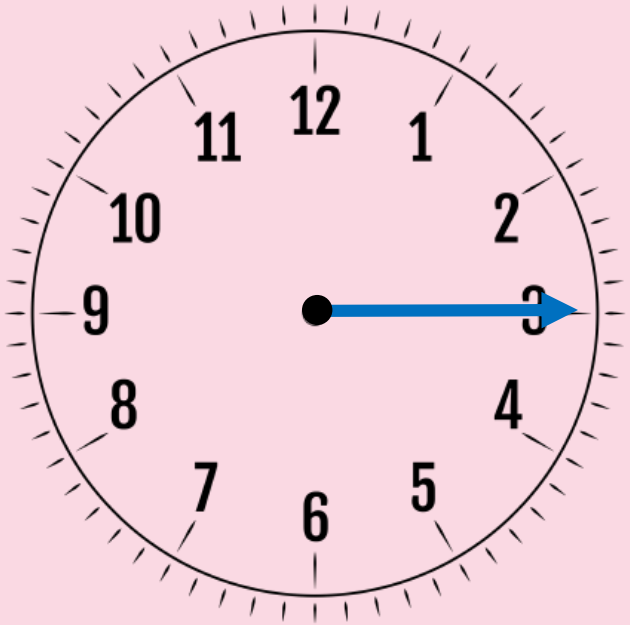


We can also count the minutes in groups of 5's

Which do you prefer?



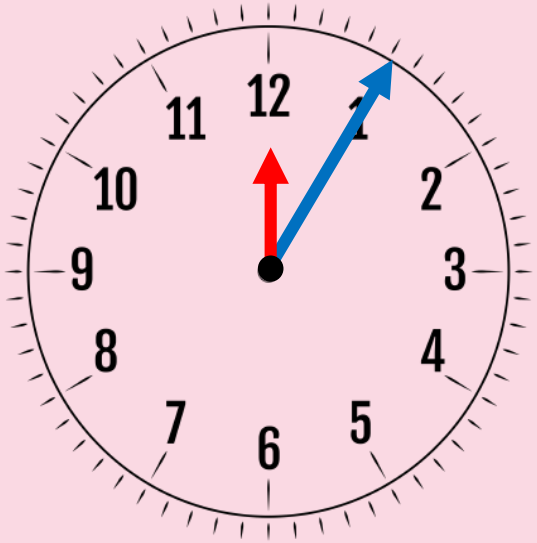
Counting on in ones?

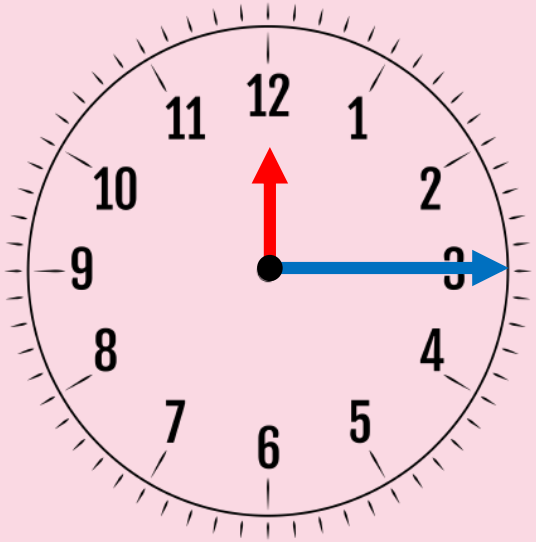


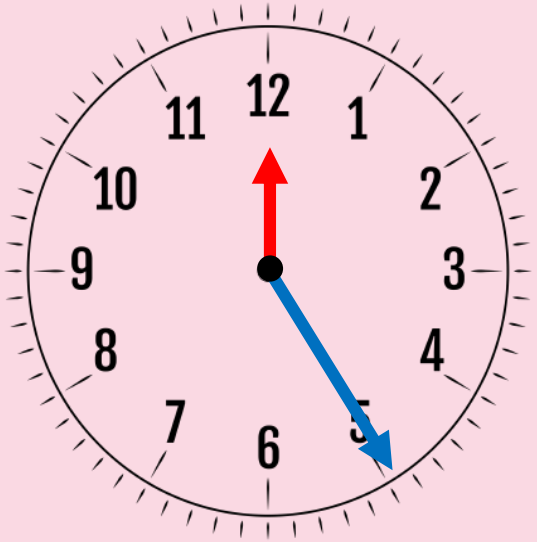
Counting on in intervals of five minutes?

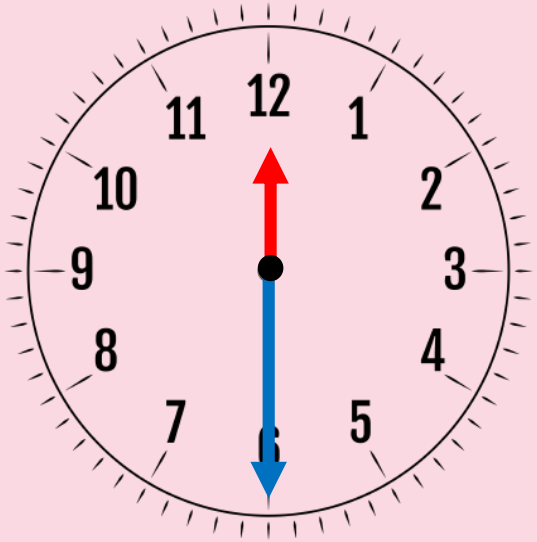
Counting in 5's is quicker!

Let's practice telling the times "past the hour" counting in 5's.









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Welcome to Year 3 live maths lesson

The session will begin at **11.15**

Turn your camera and microphone off please

Ark Curriculum+

Wednesday 24.2.21
Live maths

Year 3 Unit 8: Time

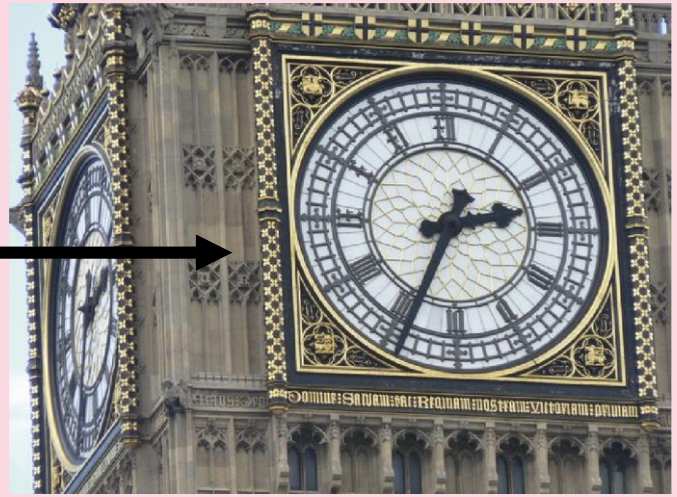
Reading analogue time with increasing accuracy

Mathematics
Mastery

Roman numerals

Tell the time on Big Ben's clock to the nearest minute.

Why does the clock on Big Ben's tower look like this?



Do now

- Does anybody know which number system these symbols are from?
- If this is a clock face, can we work out what these strange I's, X's and V's are all about?

I II III IV V VI VII VIII IX X XI XII

I will know how to read analogue times to the nearest minute

Star Words

analogue

nearest minute

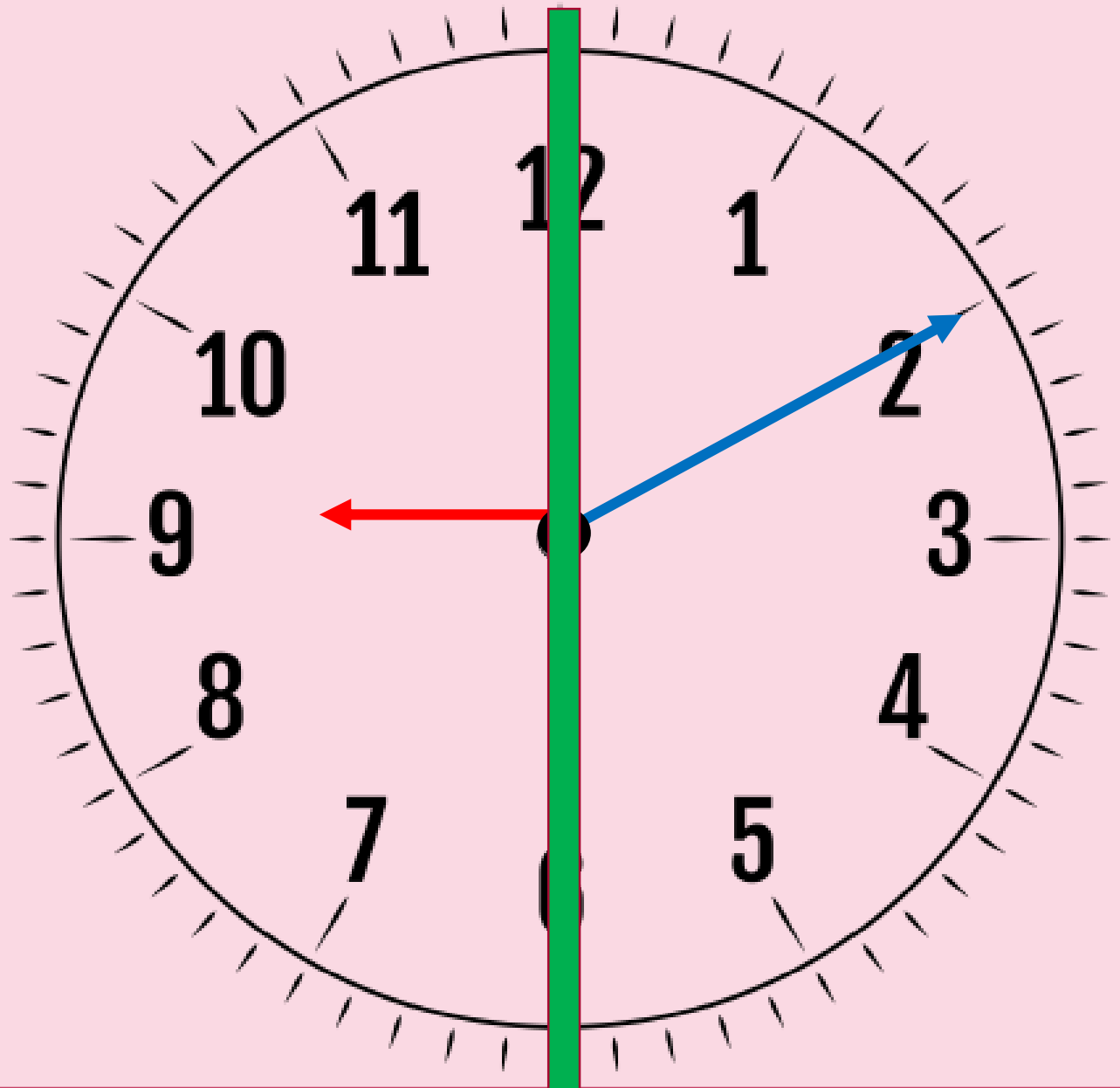
division

interval

clockwise

anti-clockwise

What is the time?



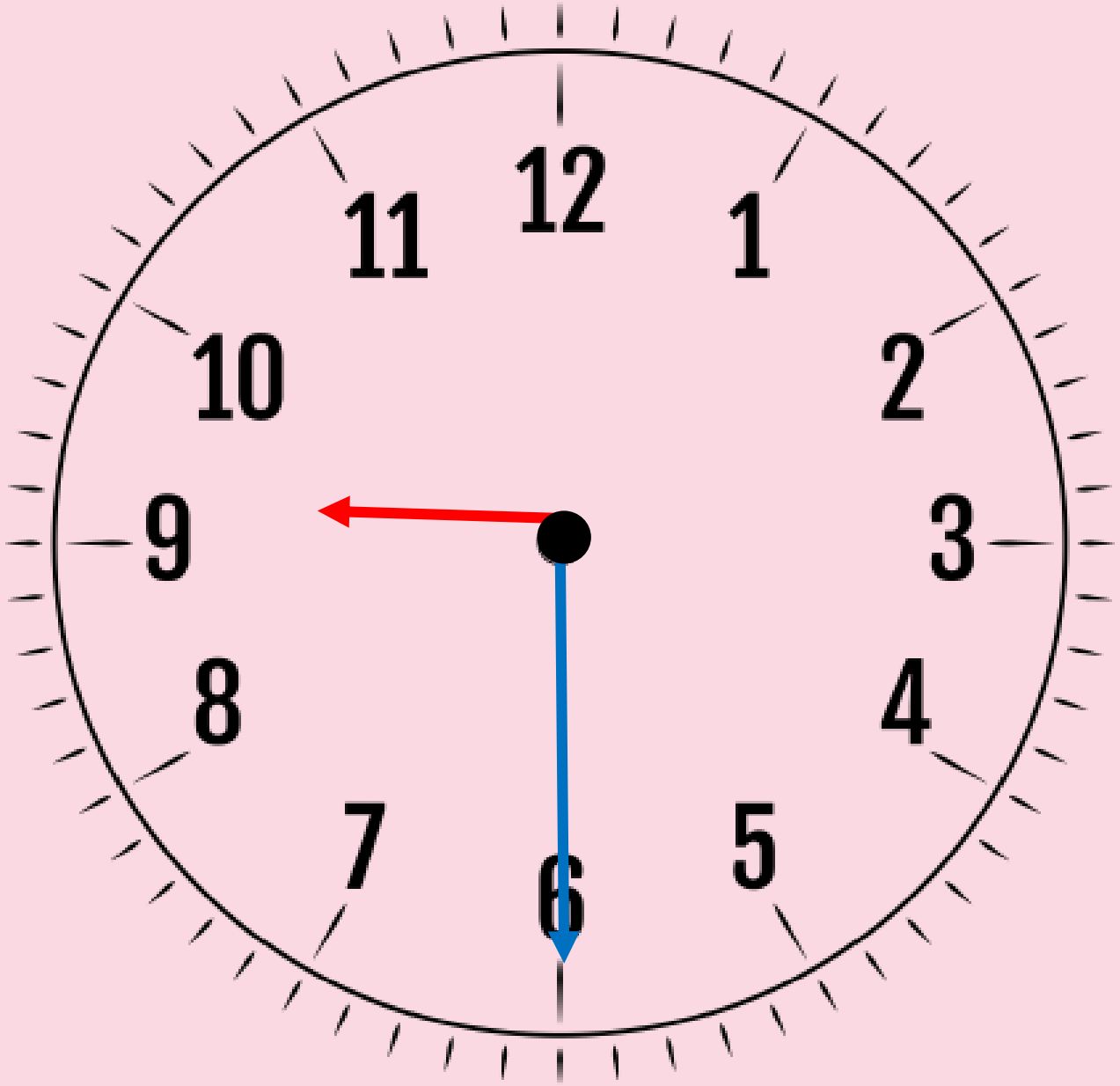
It is ten past 9

What we know about the minutes past?

How many minutes in 1 hour?

How many minutes in half an hour?

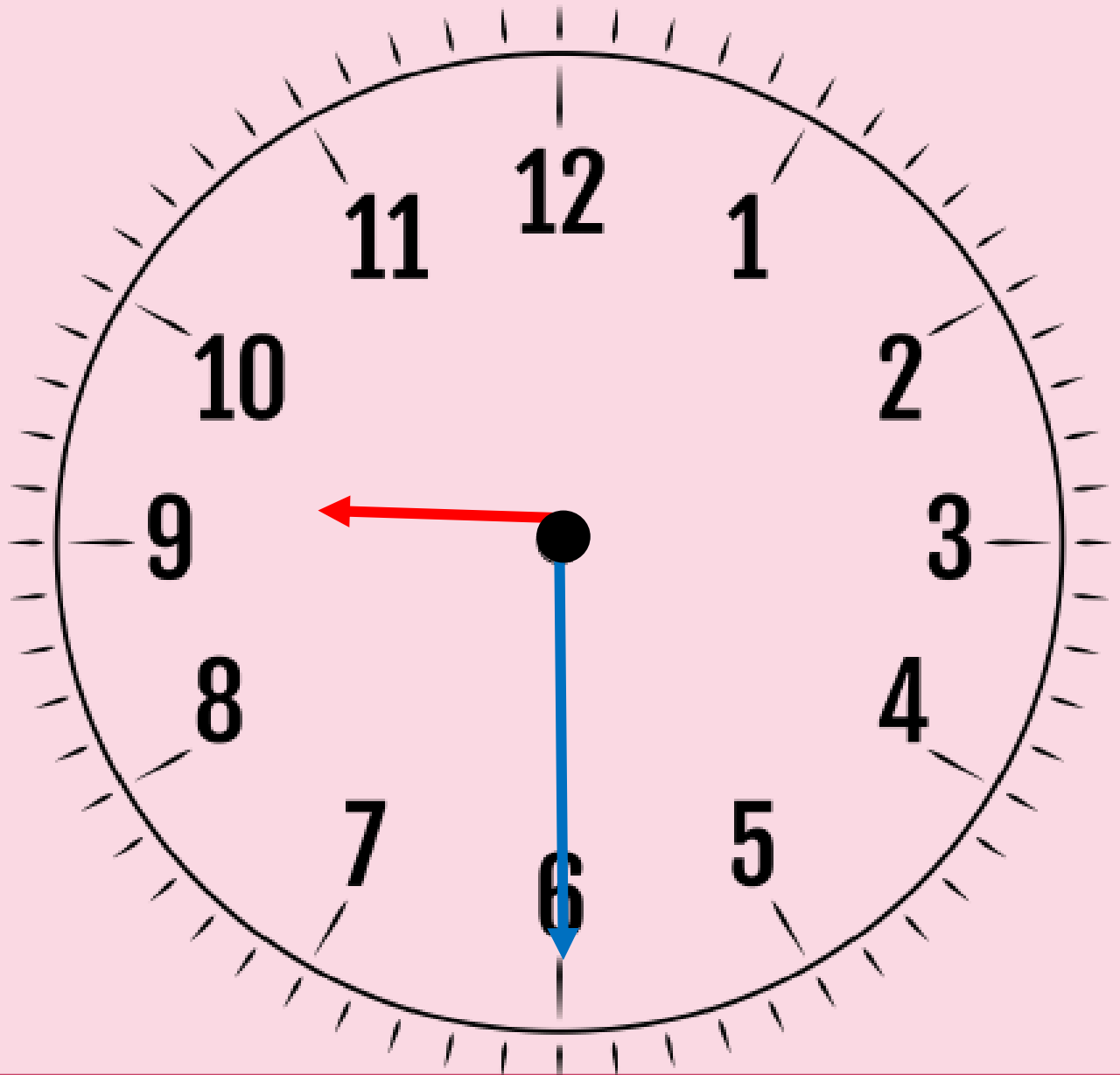
It is half past 9



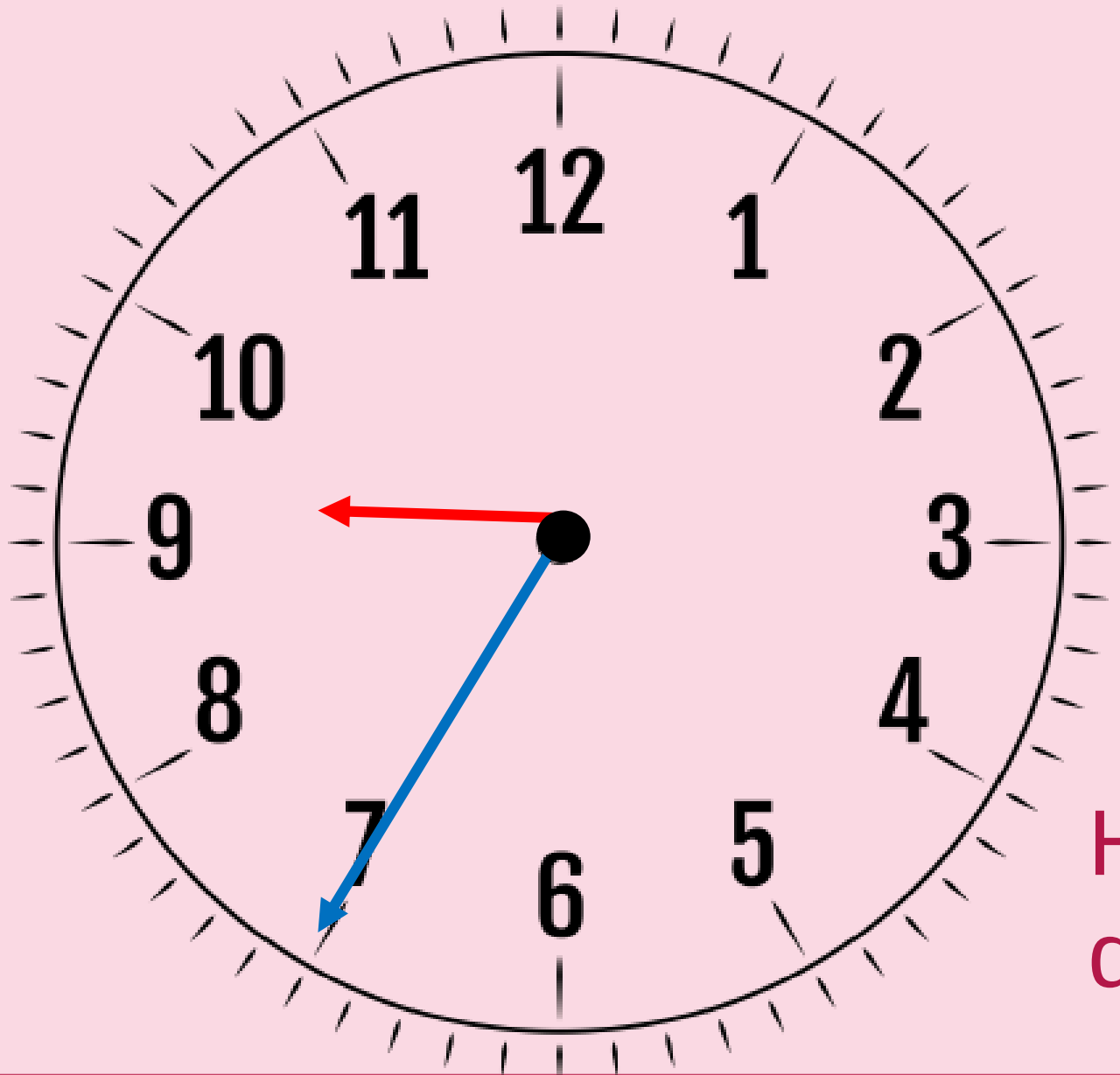
How many minutes in half an hour?

So that's 30 minutes past the hour of 9. Let's count the minutes in 5's to check this.

So what happens when the minute hand goes past half past?



When the minute hand gets past half-way, times are expressed as ‘minutes to the next hour’, rather than ‘past the previous hour

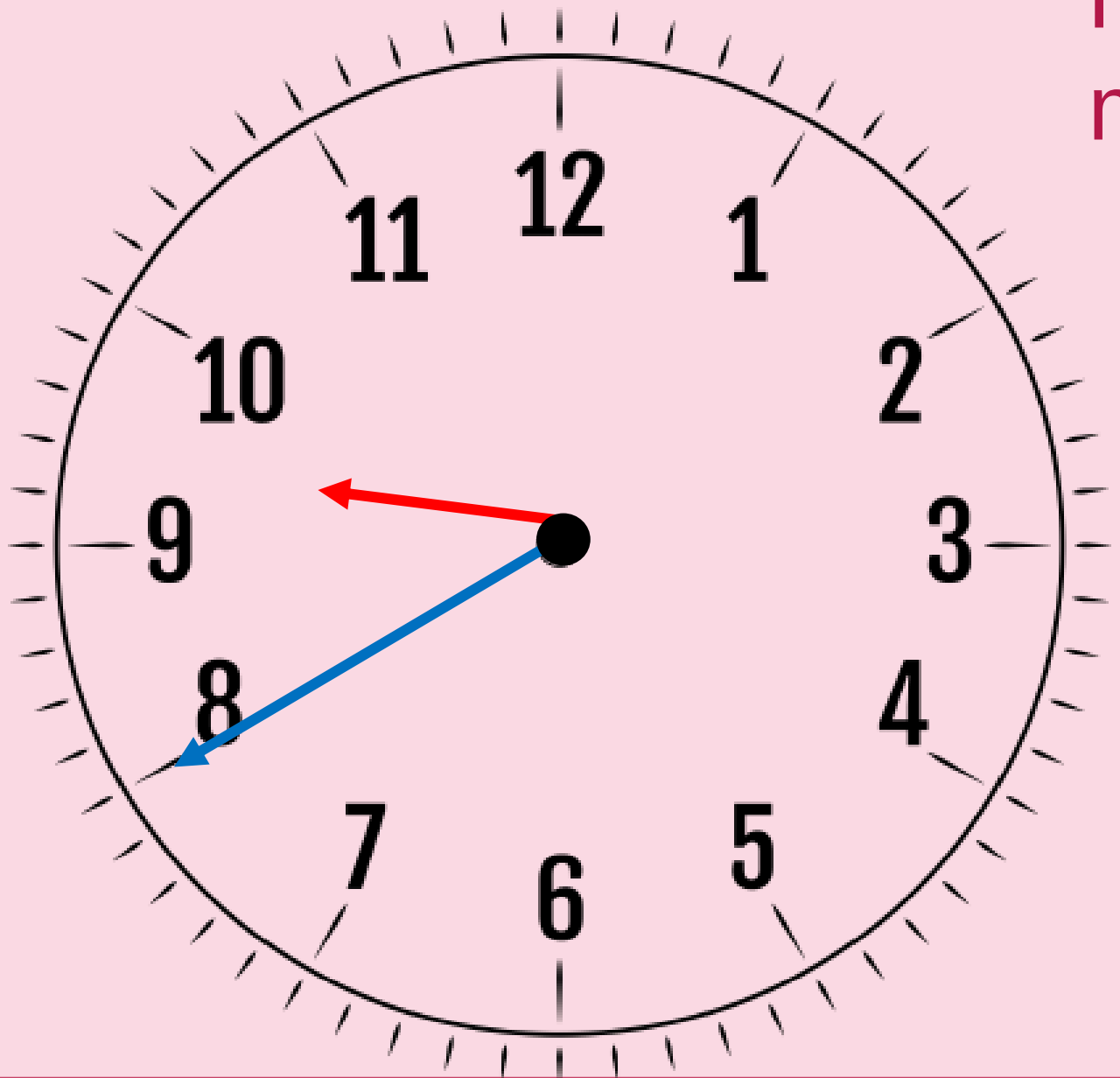


We now read the time counting how many minutes to the next hour.

We still count it in 5 minute intervals.

How many minutes did I count?

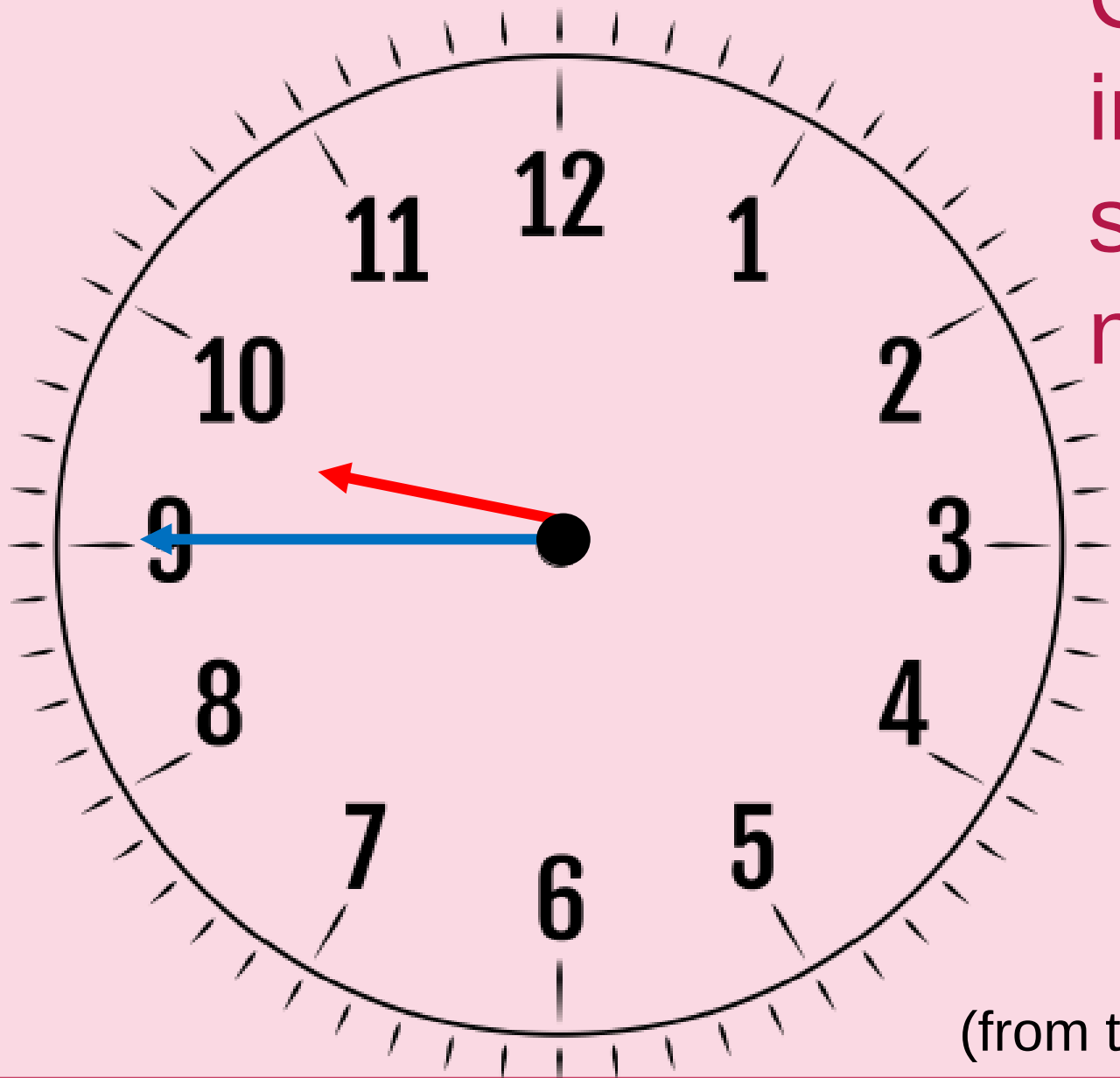
We do



Now let's count the minutes.

Look at the hour hand,
is it still directly on the 9?
Has it moved a little?

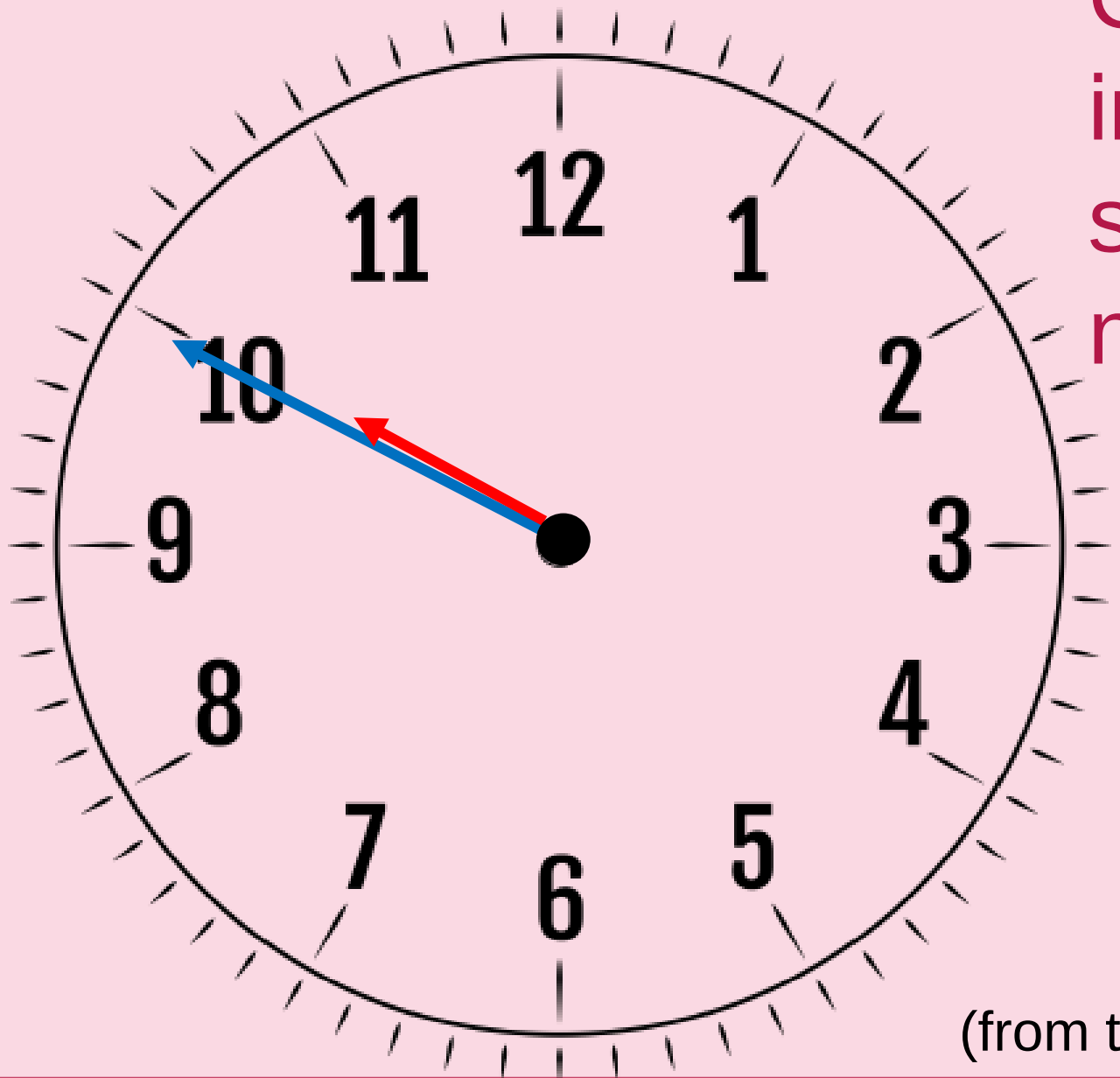
You do



Count the minutes in 5’s from where it starts to where the next hour begins.

(from the number 9 to the number 12)

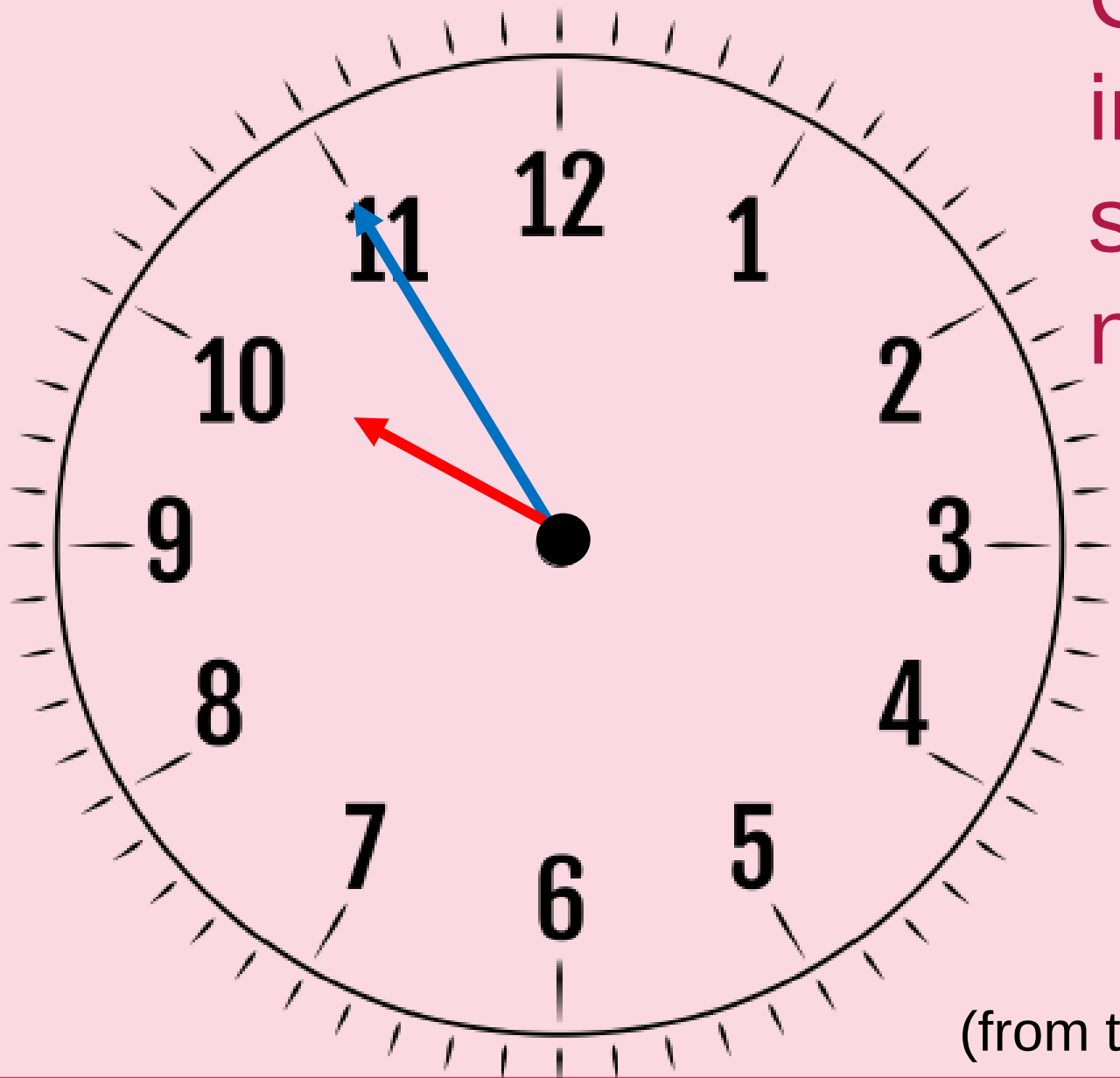
Another practise



Count the minutes in 5’s from where it starts to where the next hour begins.

(from the number 10 to the number 12)

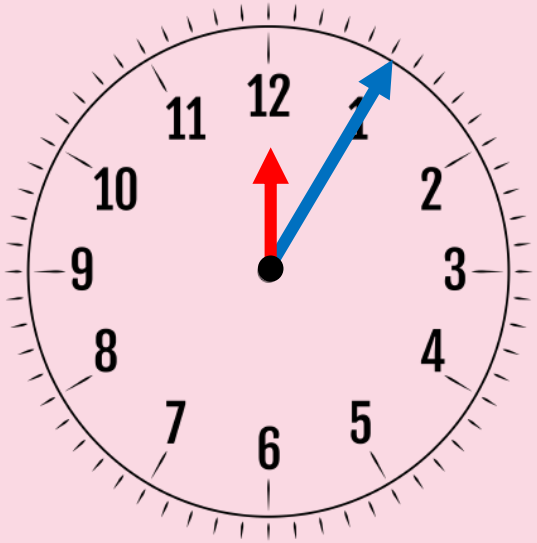
One more go

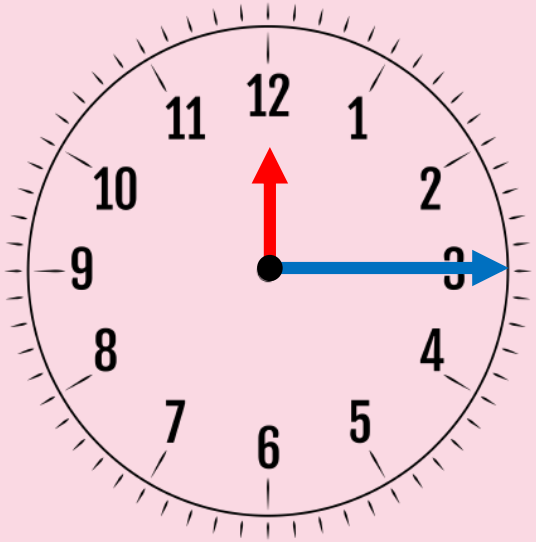


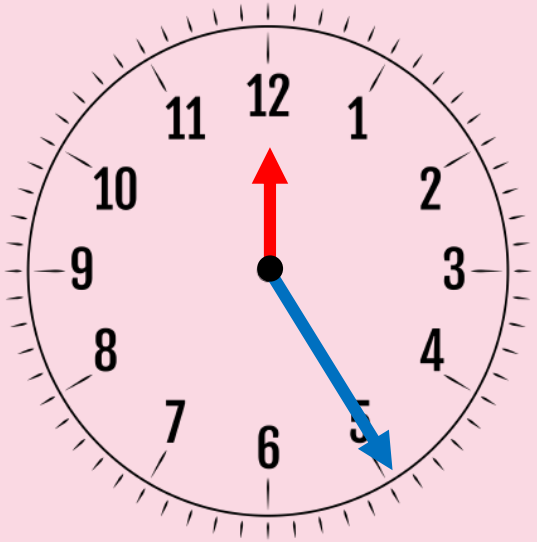
Count the minutes in 5’s from where it starts to where the next hour begins.

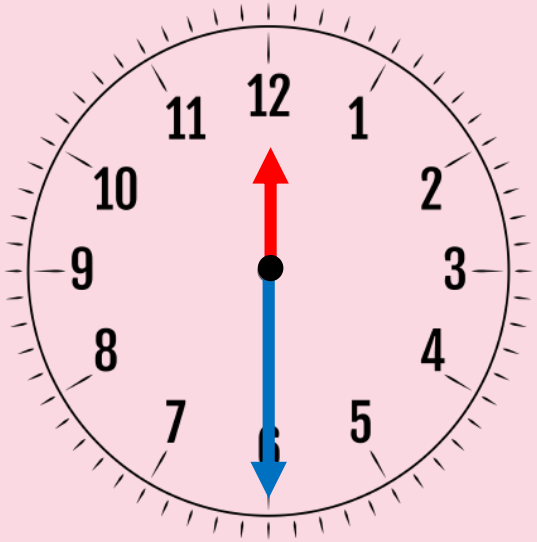
(from the number 11 to the number 12)

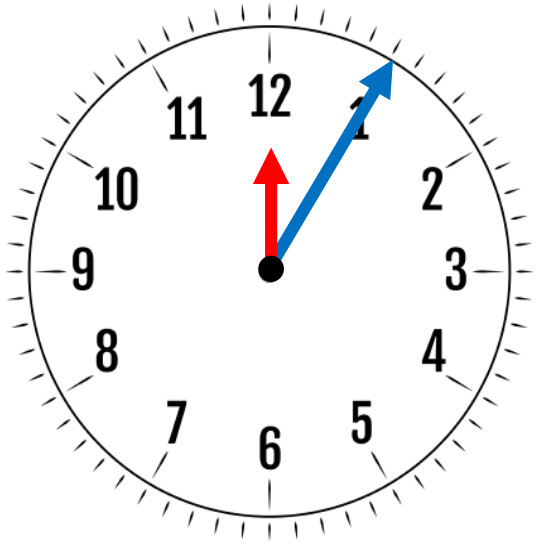
Let's practice telling the times "past the hour" counting in 5's.

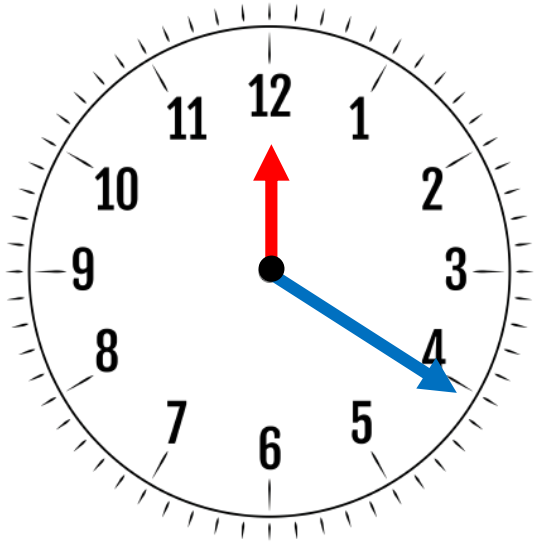


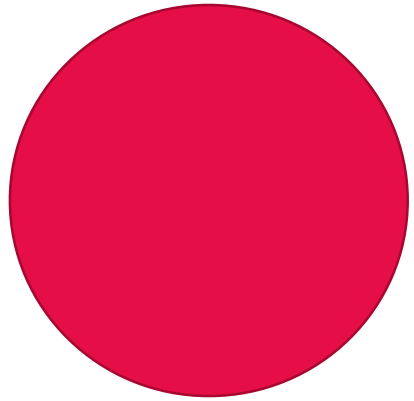




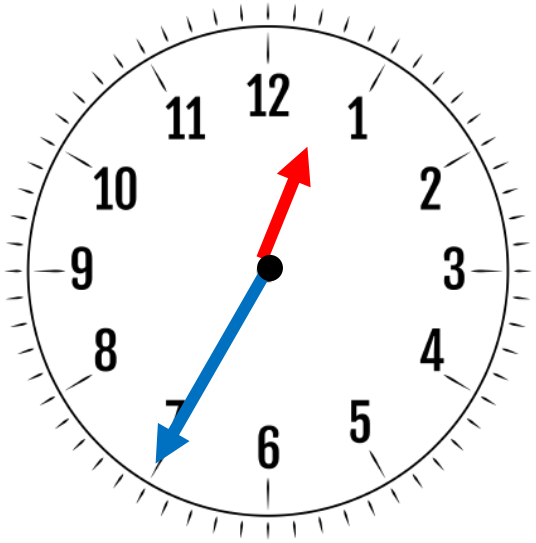


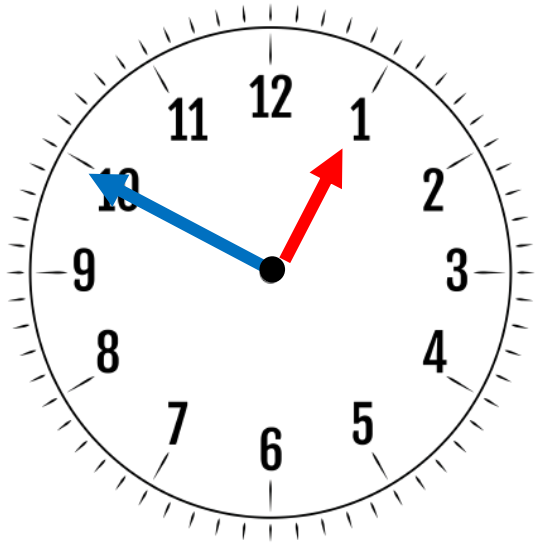






Let’s practice telling the times.
2 minutes to jot down these times





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Welcome to Year 3 live maths lesson

The session will begin at **11.15**

Turn your camera and microphone off please

Ark Curriculum+

Thursday 25.2.21
Maths live

Year 3 Unit 8: Time

: Telling the time using a.m. and p.m.

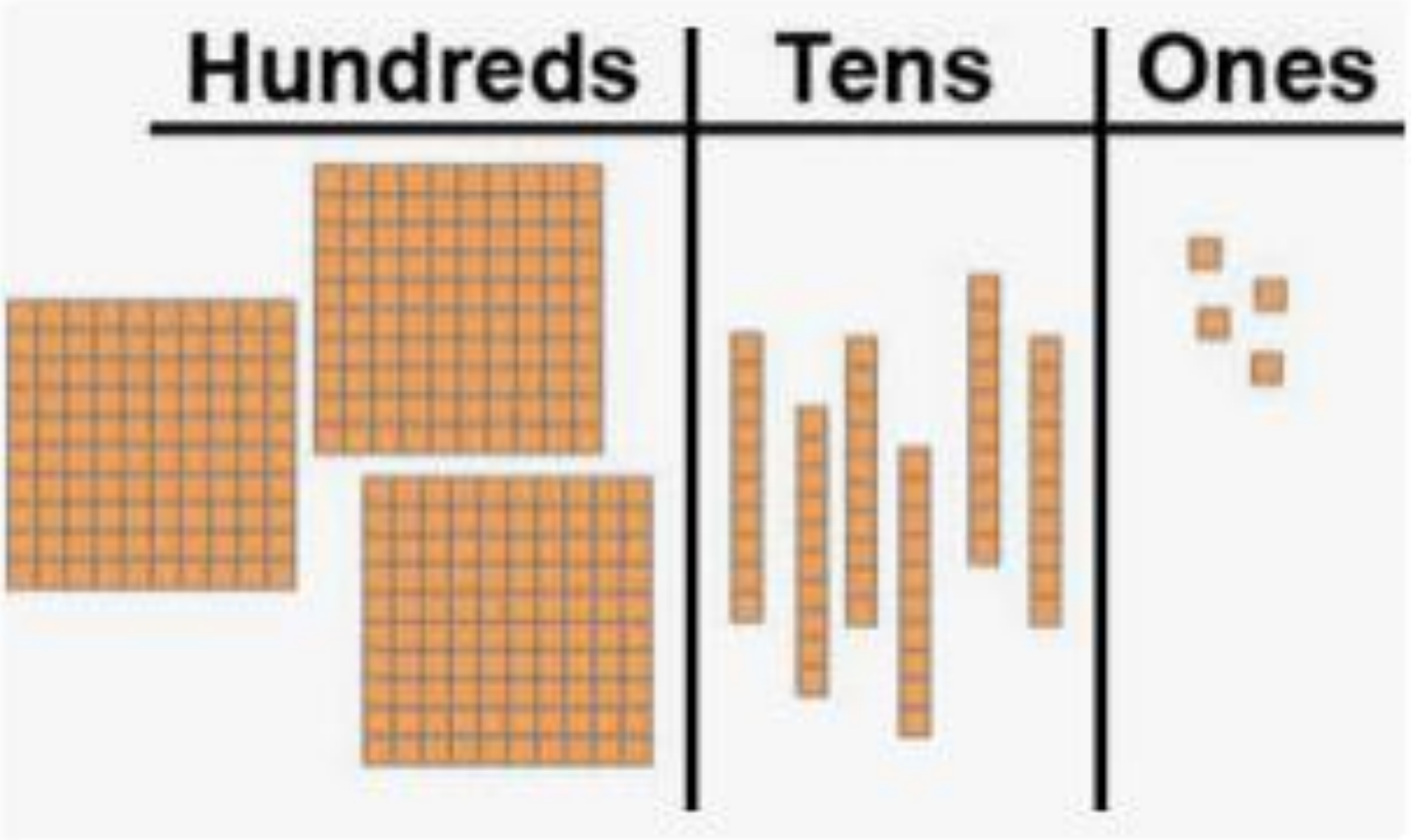
Mathematics
Mastery

Maths Meeting Thursday

25.2.21

Double the number I point at

Read the number.



What would 100 greater than this number be?

What would 30 less than this number be?

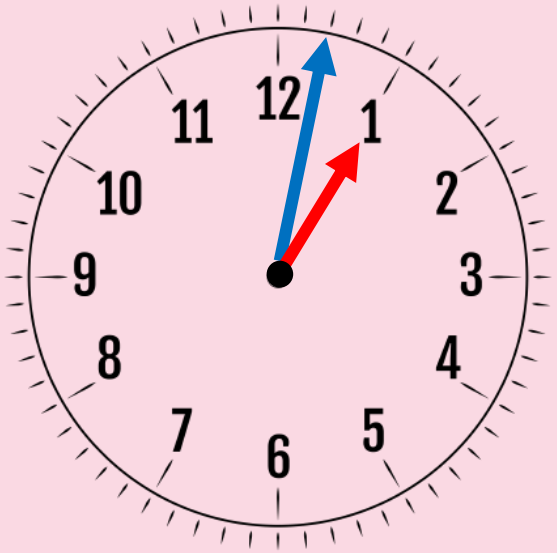
Look at the array.

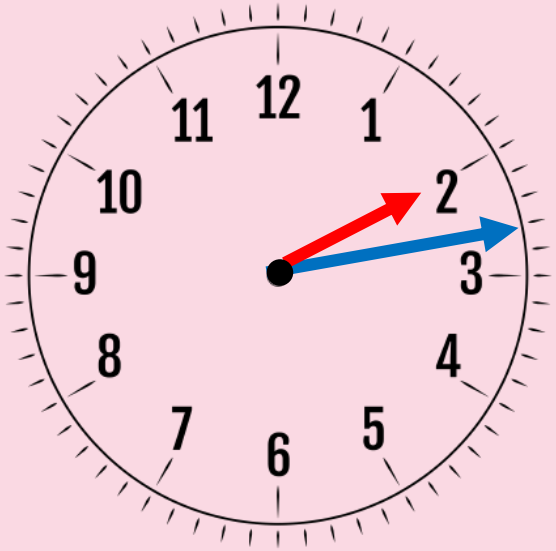
What could the multiplication number sentence be?

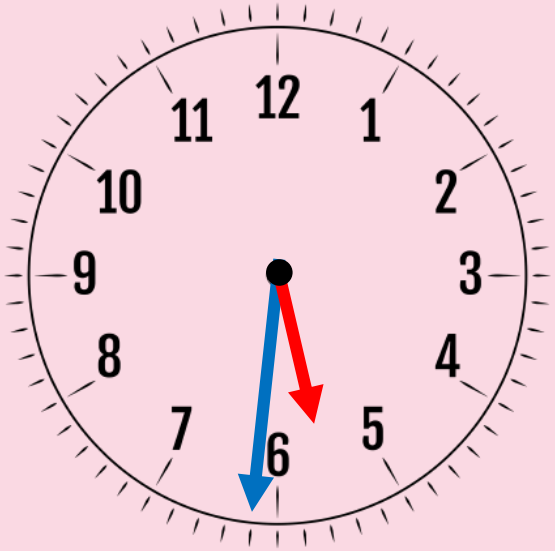
What could the division number sentence be?

Use coins to make £1, you can use as many as you need. Can you think of a way?

Write the time to the nearest minute







Do Now

I will understand and correctly use a.m. and p.m. to describe time

Star Words

a.m.

p.m.

earlier

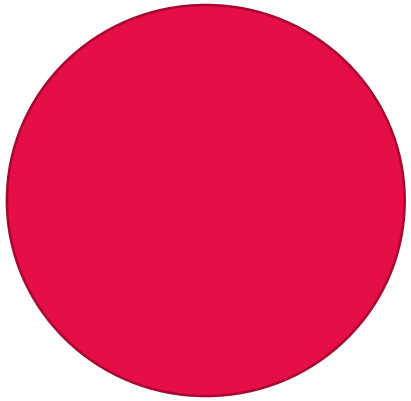
later

earliest

latest

chronological order

What do you do at 8 o’clock?

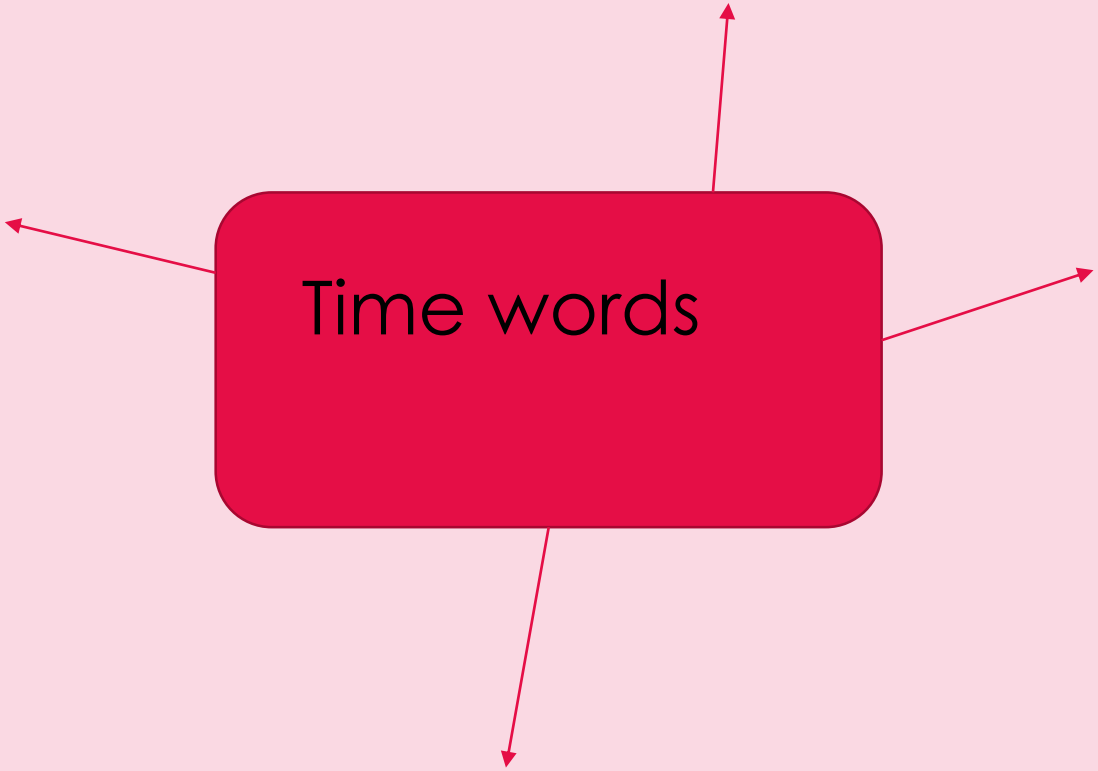


What words and phrases help us to understand the time of day we are discussing?

What sorts of words help us to understand what time of day we mean if each time on the clock face occurs twice every day?

Let’s create a mind map of words to help us.
You have 1 minute to come up with some time words.

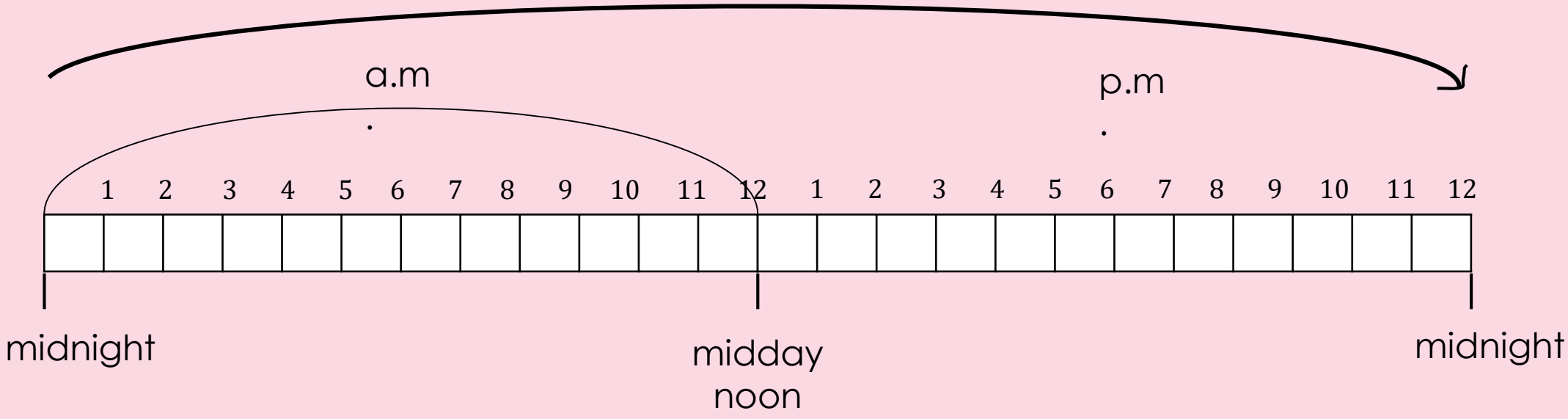
Mindmap



Understanding how to use a.m. and p.m. accurately

How many hours are in 1 day?

1 day = 24 hours



What time of day could this be?

five minutes past seven

ten minutes to six

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