

"It is eleven-fifteen o'clock." – This is incorrect as the time is actually eleven-fifteen a.m.
 O'clock is used to show when we have whole hours, but not minutes that are 'to' or 'past' the hour, e.g. 11 o'clock.

"It is quarter to 11." – This is incorrect as it is actually quarter past 11.

"The time is 3:56." – This is incorrect as it is actually 11:15 a.m. Charlotte has mixed up the minute hand and the hour hand to give the time 3:56 a.m.

- 2) Sana is correct. When a clock is slow, it means that the real time is in advance of the time shown on the clock. This means that you need to count forward 8 minutes from the time shown in order to find the correct time.
- 3) Amrit is incorrect. We know that it must be a time with 55 minutes past the hour/5 minutes to the next hour. We also know that the time must be one of the hours that is hidden on the clock, e.g. 6:55 p.m.

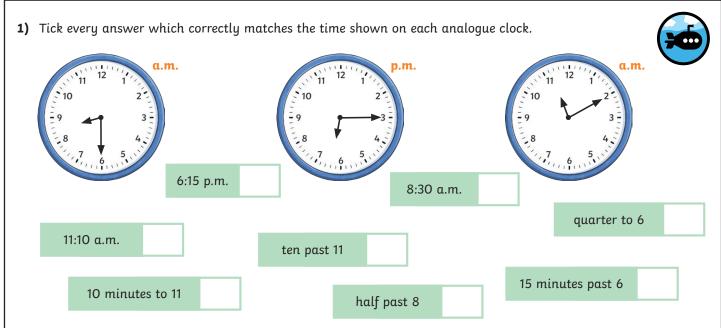
Maya is incorrect. If the time was 9:55 p.m., you would be able to see the hour hand as it would be close to the 10 on the clock.

Zac is correct. If the time was 3:55 p.m., the hour hand would be close to the 4 on the clock, and we would not be able to see it as it would be covered up. The minute hand would be visible and pointing at the number 11.

- 1) a) I am 9:15 p.m.
 - b) I am 7:40 a.m.



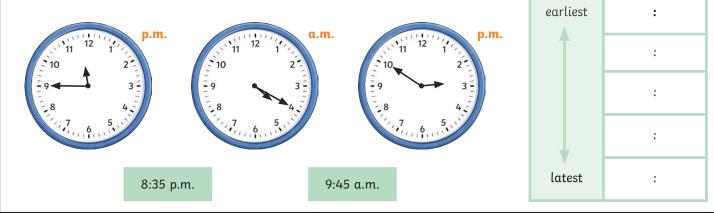
- b) 3:16 p.m. The hour hand needs to just be past 3 for it to be hidden and the minute hand will be hidden at 16 minutes past any earlier and you will be able to see the hands.
- c) 8:44 p.m. The hour hand needs to be just before 9 to be hidden and the minute hand will need to be at 44 minutes any later and it will be showing.
- 3) α) 7:48 p.m.
 8:05 p.m. 17 minutes = 7:48 p.m.
 - b) 2:52 p.m.
 3:15 p.m. 17 minutes = 2:58 p.m.
 2:58 p.m. 6 minutes = 2:52 p.m.



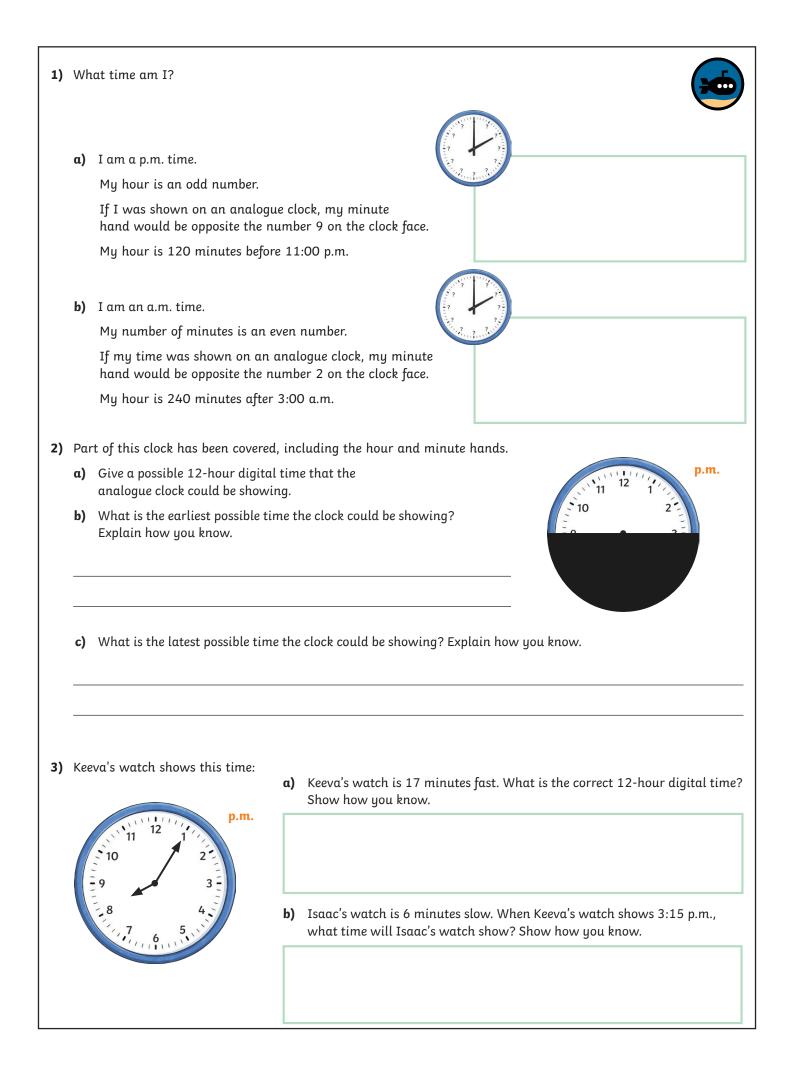
2) a) Anna kept a record of what she did on one morning of her holiday. Complete the timetable by giving the correct 12-hour digital times.

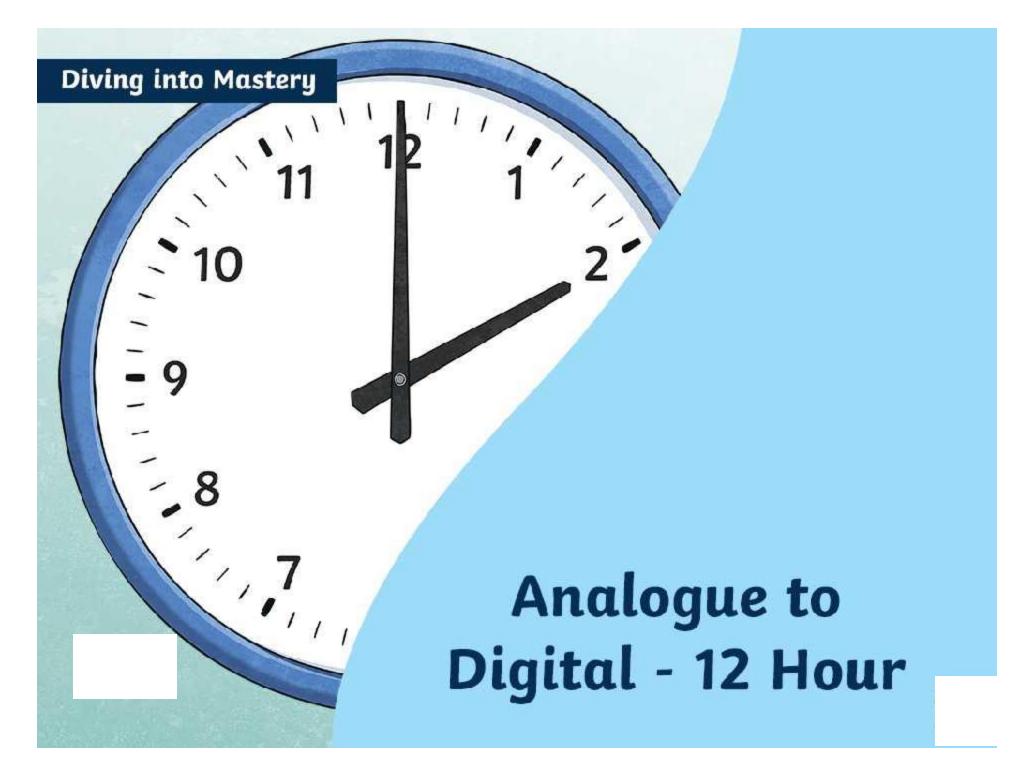
Activit	J	Analogue Time	12-Hour Digital Time	Activity	Analogue Time	12-Hour Digital Time
breakfas	st	a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m.		windsurfing lesson	a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. b.a.	
catch bus the beac		a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m.		lunch	p.m. p.m. p.m. p.m. p.m. p.m. p.m. p.m.	

- b) Anna's bus journey to the beach takes a quarter of an hour. What time does she reach the beach?
- 3) Use 12-hour digital time to rewrite these times in order from earliest to latest.



1)	Each of the statements about this clock are wrong. Explain the mistake each person has made.
2)	This clock is running 8 minutes slow. Sana: "I think the correct time is 7:03 p.m." Noah: "I think the correct time is actually 6:47 p.m." Which child do you agree with and why?
3)	On this clock, the hour hand is hidden. Zac, Maya and Amrit are thinking of times the clock could be showing. Explain if you agree or disagree with each of their statements. Amrit: "I think that the clock could be showing any time, as we can't see one of the hands of the clock." Maya: "I think the clock could be showing 9:55 p.m." Zac: "I think that the time on this clock could be 3:55 p.m."





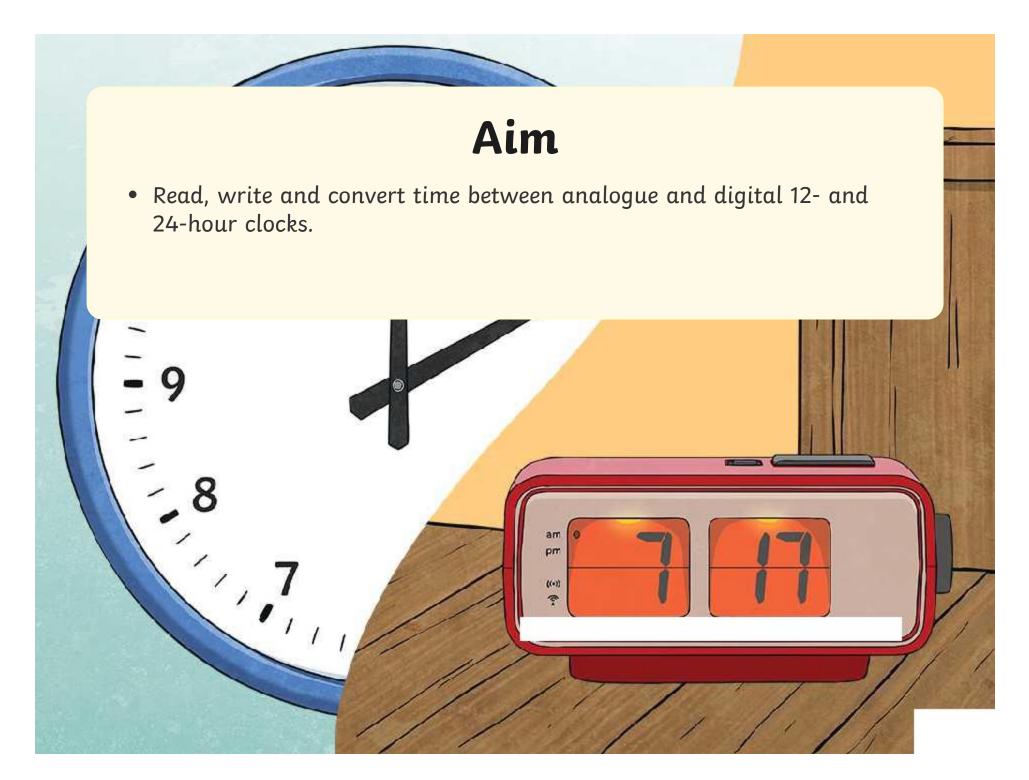
Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

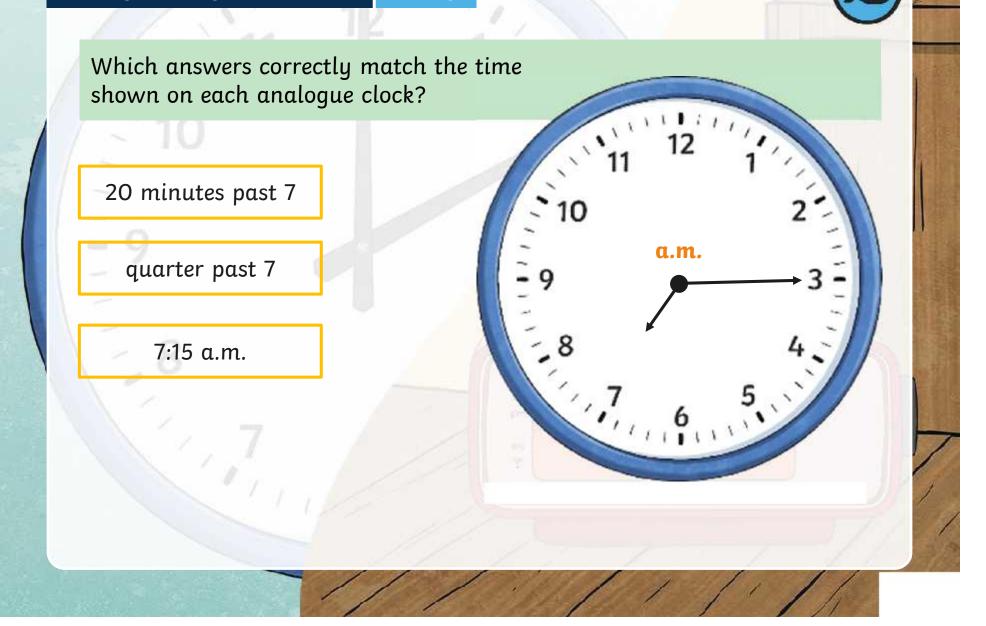


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

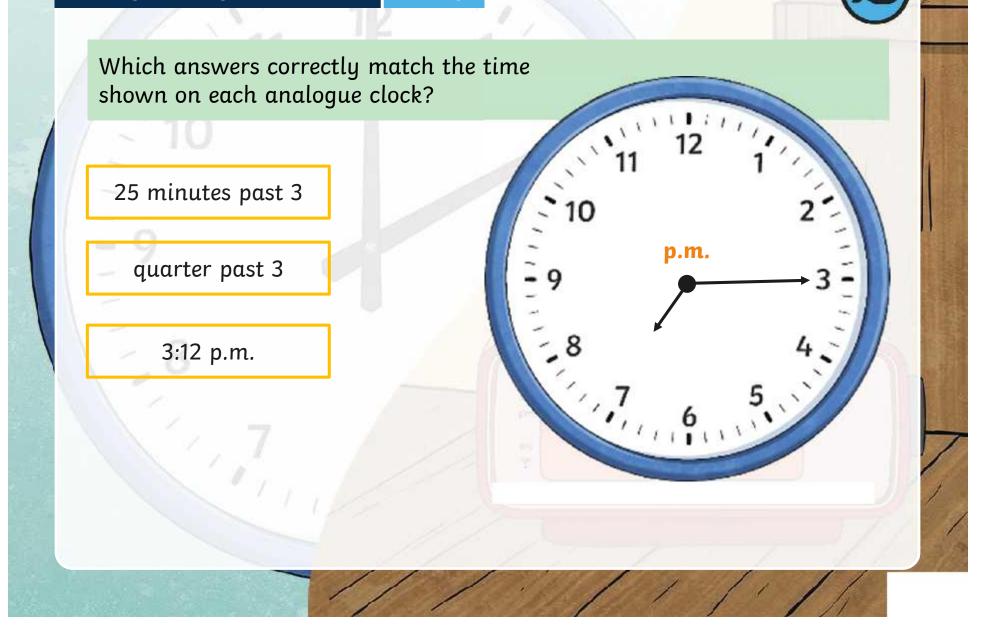
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



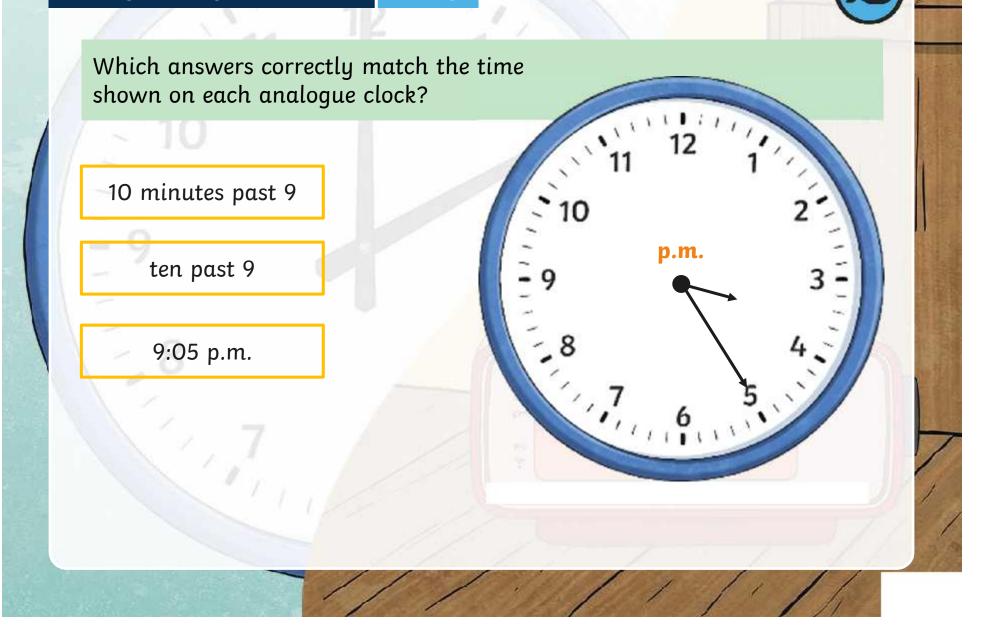
Diving

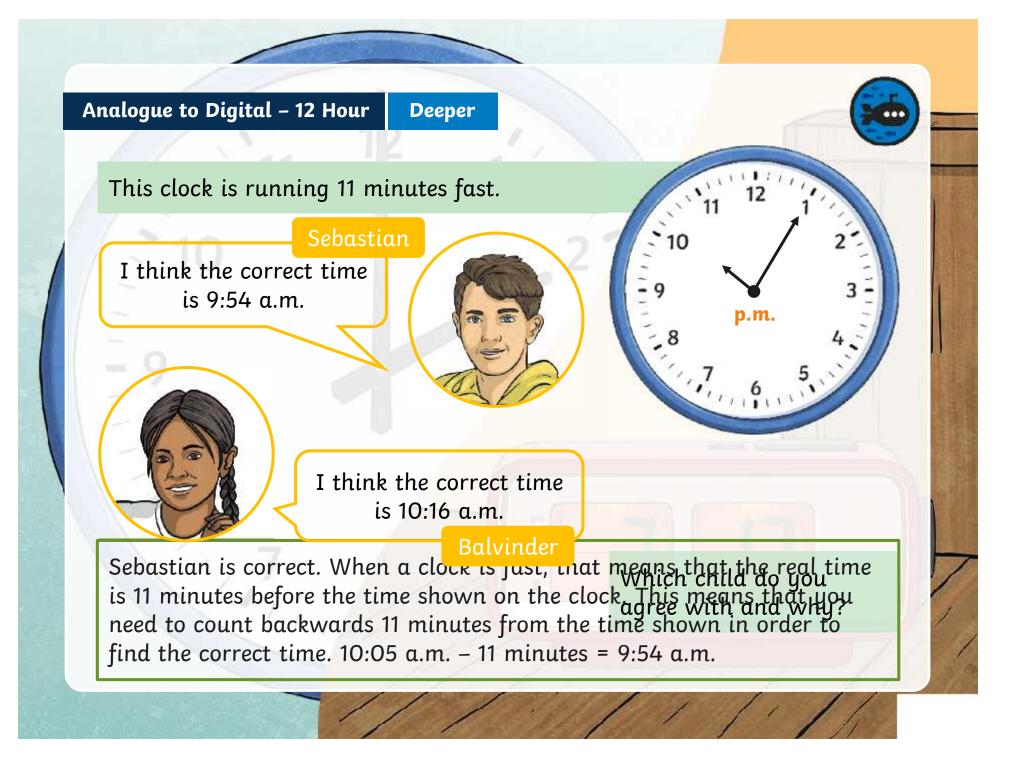


Diving



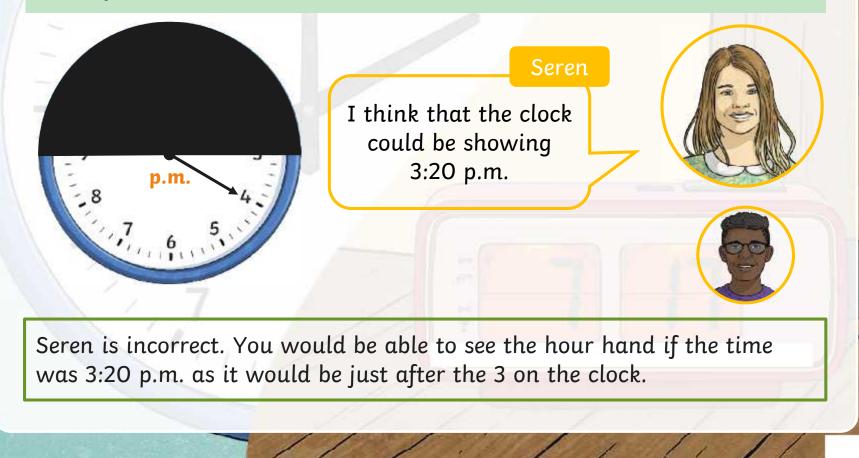
Diving





Deeper

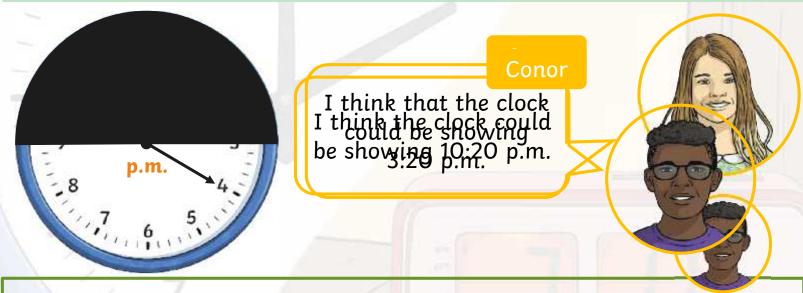
On this clock, the hour hand is hidden. Seren and Conor are thinking of times the clock could be showing. Explain if you agree or disagree with each of their statements.



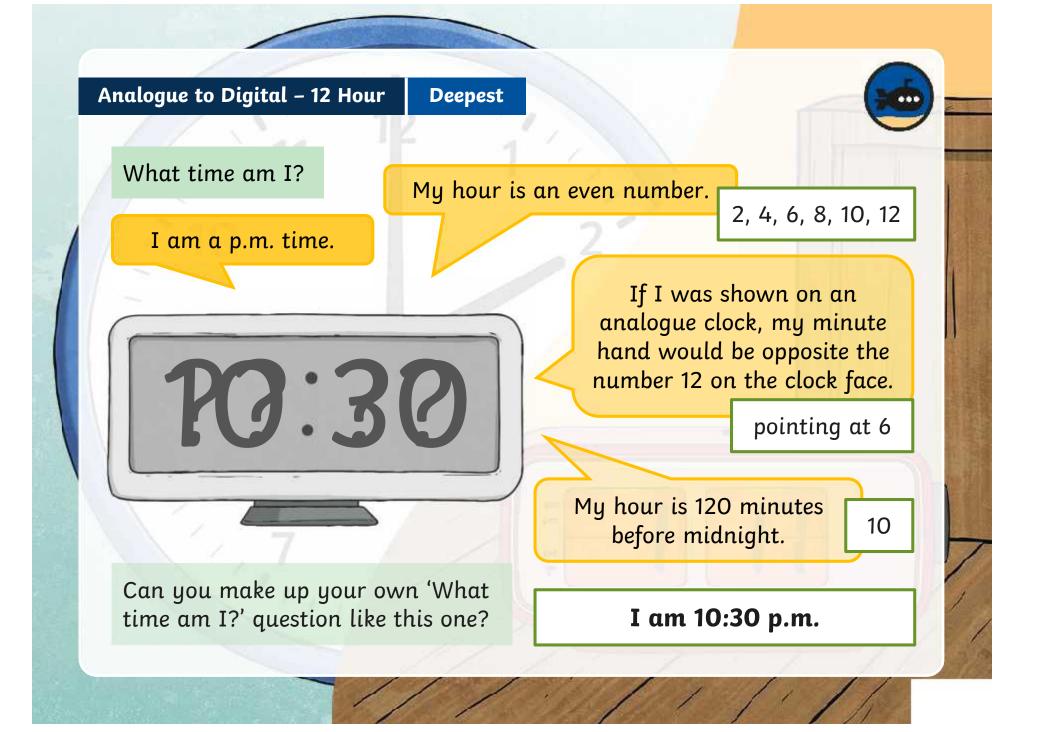
Deeper



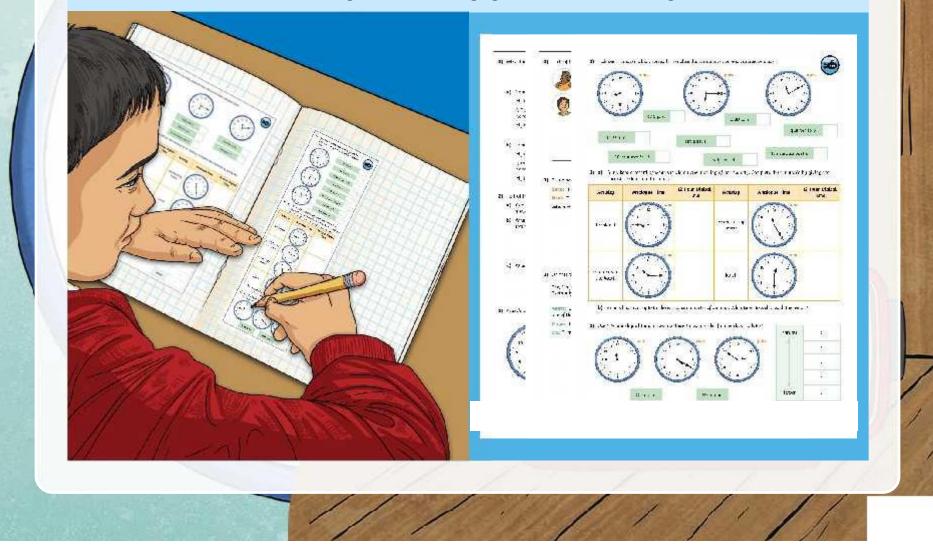
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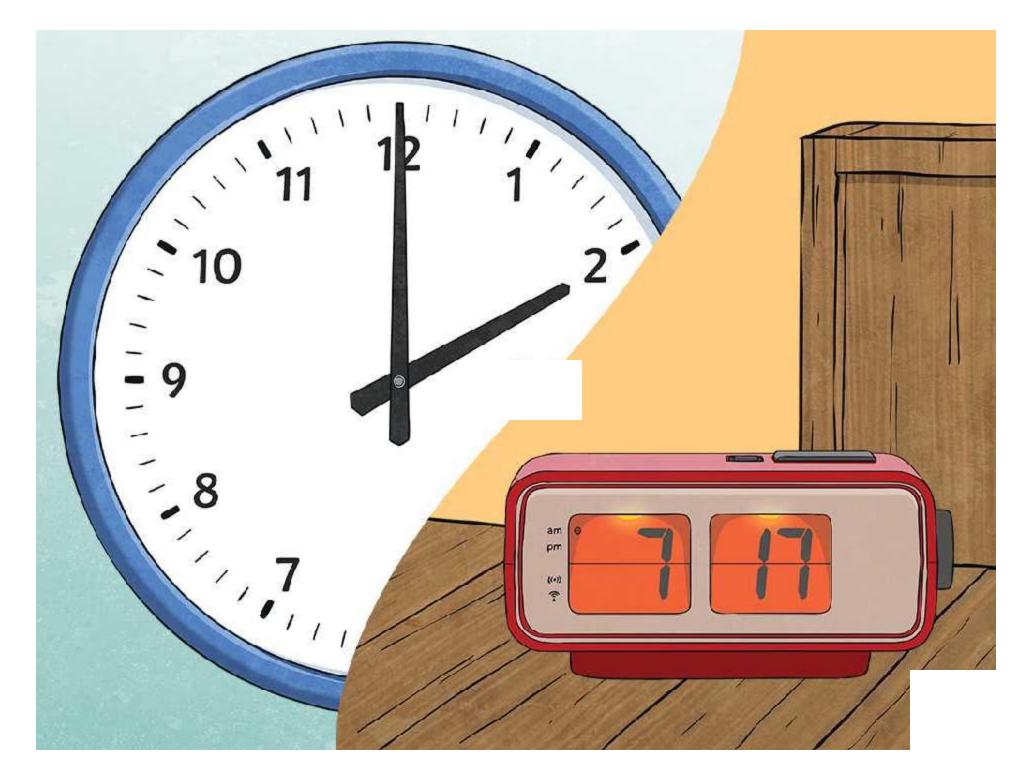


Conor is correct. The hour hand would be just past 10 on the clock if the time was 10:20 p.m. so it would be covered up. The minute hand would be visible and pointing at 4 to show that is 20 past the hour.



Dive in by completing your own activity!

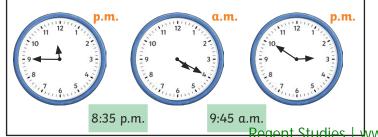


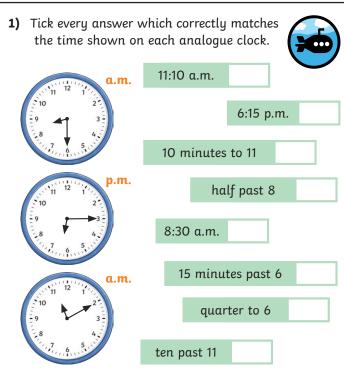


- 1) Tick every answer which correctly matches the time shown on each analogue clock.
 11:10 a.m.
 11:10 a.m.
 6:15 p.m.
 10 minutes to 11
 half past 8
 8:30 a.m.
 15 minutes past 6
 quarter to 6
 ten past 11
- 2) a) Anna kept a record of what she did on one morning of her holiday. Complete the timetable by giving the correct 12-hour digital times.

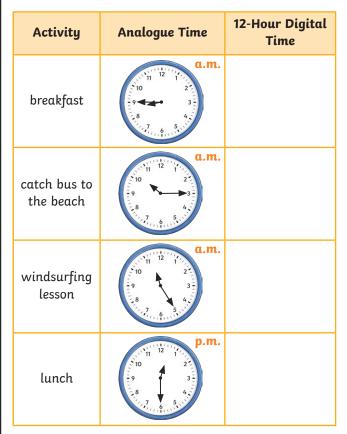
Activity	Analogue Time	12-Hour Digital Time
breakfast	a.m.	
catch bus to the beach	a.m.	
windsurfing lesson	a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. a.m. b b b c c c c c c c c	
lunch	p.m. p.m. p.m. p.m. p.m. p.m. p.m. p.m. p.m. p.m.	

- **b)** Anna's bus journey to the beach takes a quarter of an hour. What time does she reach the beach?
- 3) Use 12-hour digital time to rewrite these times in order from earliest to latest.



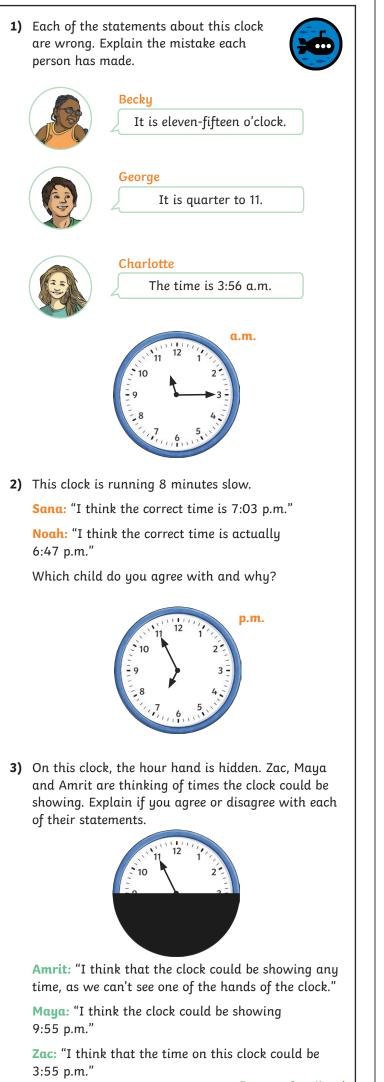


2) a) Anna kept a record of what she did on one morning of her holiday. Complete the timetable by giving the correct 12-hour digital times.



- **b)** Anna's bus journey to the beach takes a quarter of an hour. What time does she reach the beach?
- **3)** Use 12-hour digital time to rewrite these times in order from earliest to latest.





 Each of the statements about this clock are wrong. Explain the mistake each person has made.



- p.
- 3) On this clock, the hour hand is hidden. Zac, Maya and Amrit are thinking of times the clock could be showing. Explain if you agree or disagree with each of their statements.



Amrit: "I think that the clock could be showing any time, as we can't see one of the hands of the clock."

Maya: "I think the clock could be showing 9:55 p.m."

Zac: "I think that the time on this clock could be 3:55 p.m."

1) What time am I?



a) I am a p.m. time.
 My hour is an odd number.

If I was shown on an analogue clock, my minute hand would be opposite the number 9 on the clock face.

My hour is 120 minutes before 11:00 p.m.

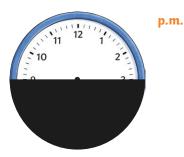
b) I am an a.m. time.

My number of minutes is an even number.

If my time was shown on an analogue clock, my minute hand would be opposite the number 2 on the clock face.

My hour is 240 minutes after 3:00 a.m.

2) Part of this clock has been covered, including the hour and minute hands.



- **a)** Give a possible 12-hour digital time that the analogue clock could be showing.
- b) What is the earliest possible time the clock could be showing?
 Explain how you know.
- c) What is the latest possible time the clock could be showing? Explain how you know.
- 3) Keeva's watch shows this time:



- a) Keeva's watch is 17 minutes fast. What is the correct 12-hour digital time? Show how you know.
- b) Isaac's watch is 6 minutes slow.
 When Keeva's watch shows 3:15 p.m., what time will Isaac's watch show?
 Show how you know.

1) What time am I?



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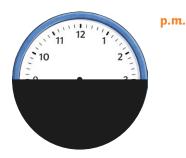
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- **a)** Give a possible 12-hour digital time that the analogue clock could be showing.
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 When Keeva's watch shows 3:15 p.m., what time will Isaac's watch show? Show how you know.