

Calculating with time in football

Football timeline 1

Maths resource

Upper KS2: Ages 9-11

Can you check your understanding of calculations involving time using these football match timelines?

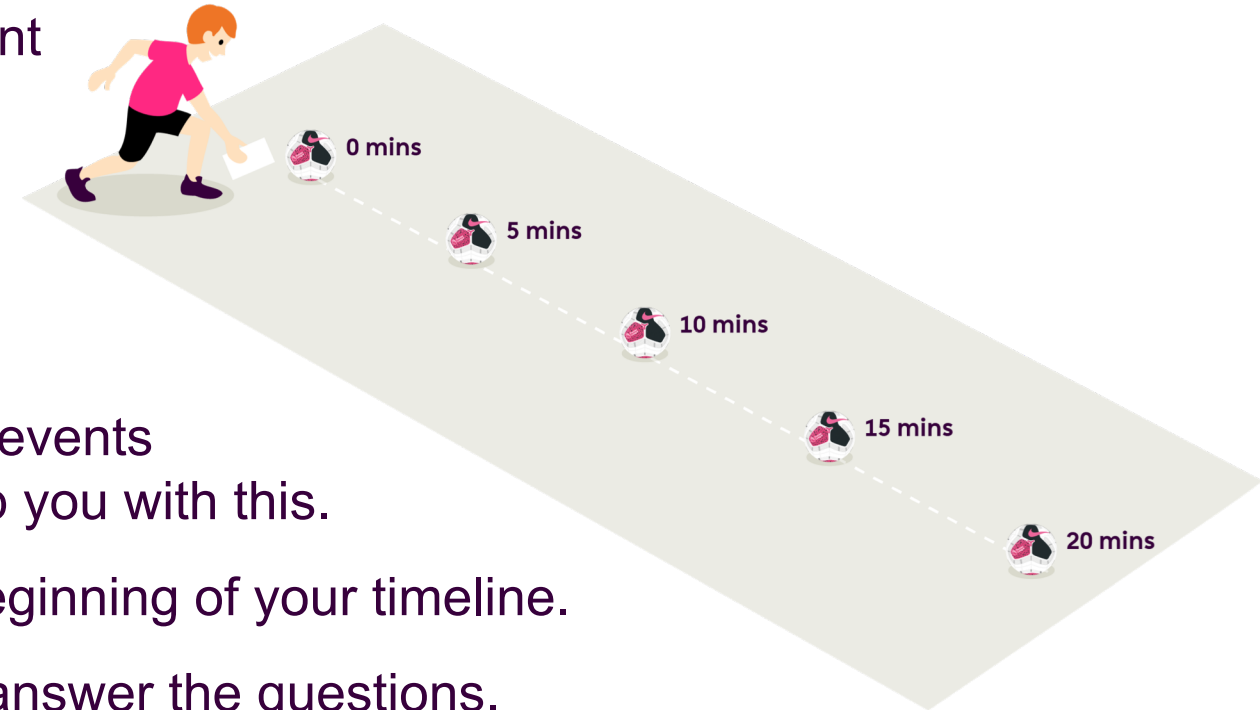
You will first need to make time and match event cards by writing on pieces of paper or printing off the ones found in the resource pack:

- Timeline cards
- Match event cards

Follow the instructions and add the key match events along the timeline. The word problems will help you with this.

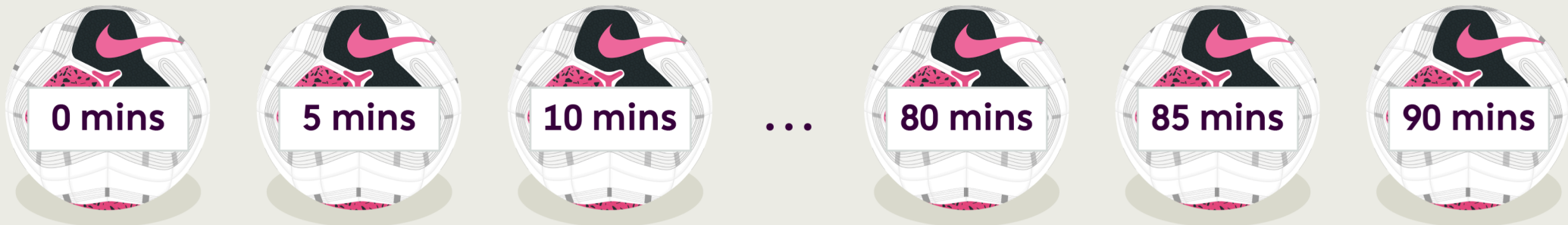
Tip: Start by placing the kick-off event at the beginning of your timeline.

Once you have labelled your timeline, try and answer the questions.



Football timeline 1

Timeline 1: A 90-minute timeline in 5 minute increments. You will need to place the time cards (that you can print or make) in a line and space them out with a sensible gap, each labelled in **5** minute increments. The first time card is labelled as 0 minutes, then the second 5 minutes, 10 minutes etc. until you reach 90 minutes.



These events are jumbled up.

Can you place them
in their correct order
on your timeline?



Full-time

A. The full-time whistle was blown at the end of the match.



Half-time

B. Halfway through the match, the referee blew the half-time whistle.



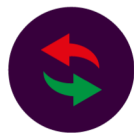
Red card

C. There was a red card 15 minutes into the match.



Goal!

D. A goal was scored 10 minutes after the red card was awarded.



Substitution

E. There was a substitution five minutes after half-time.



Full time!



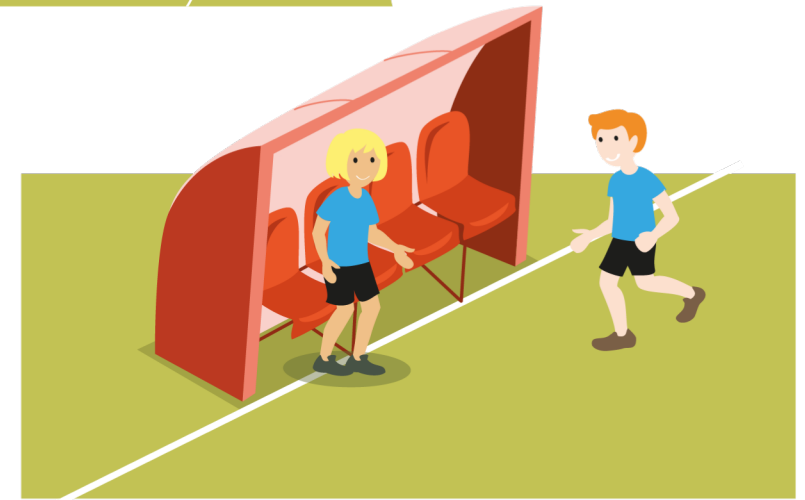
Half-time!



Once you've shown events A-E, have a go at answering the following questions.

Note your answers down on a piece of paper.

1. In what minute was the goal?
2. In what minute was the substitution made?



Answers

- A. Full-time card placed at 90 minutes
 - B. Half-time card placed at 45 minutes
 - C. Red card placed at 15 minutes
 - D. Goal card placed at 25 minutes
 - E. Substitution card placed at 50 minutes
- **Q1.** The goal was at 25 minutes
 - **Q2.** The substitution was made in the 50th minute

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Football timeline 2

Maths resource

Upper KS2: Ages 9-11

Can you check your understanding of calculations involving time using these football match timelines?

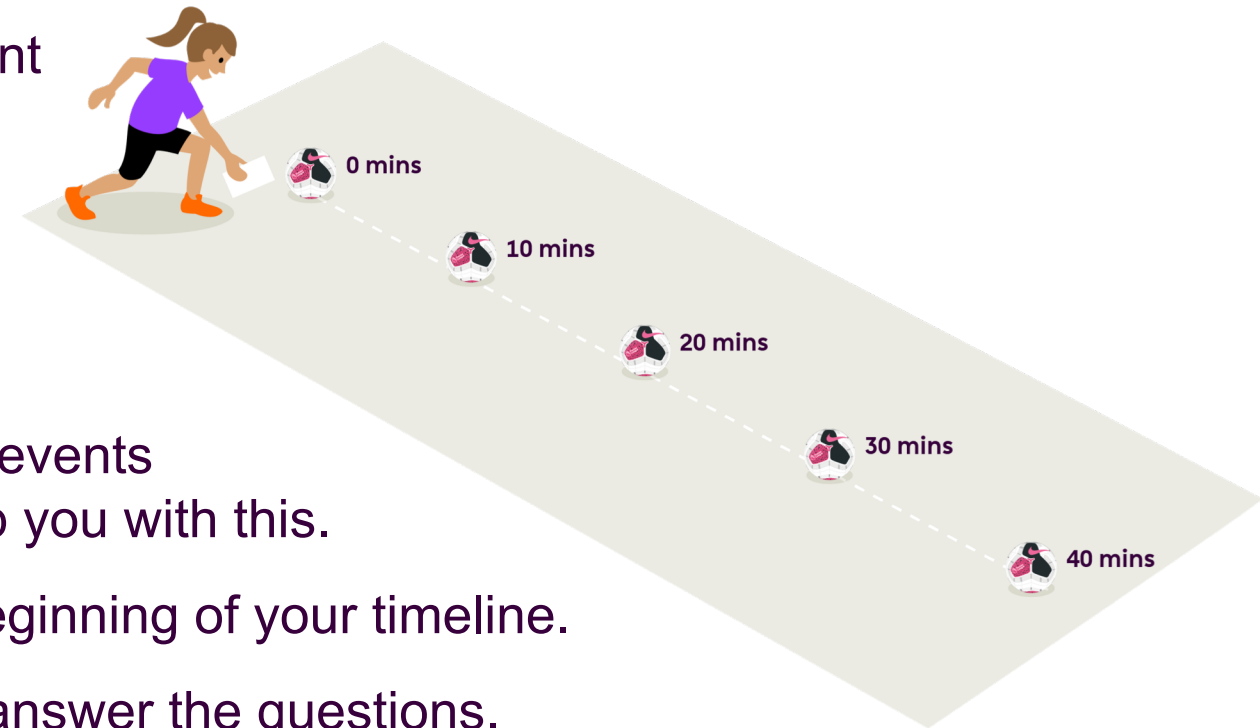
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- Match event cards

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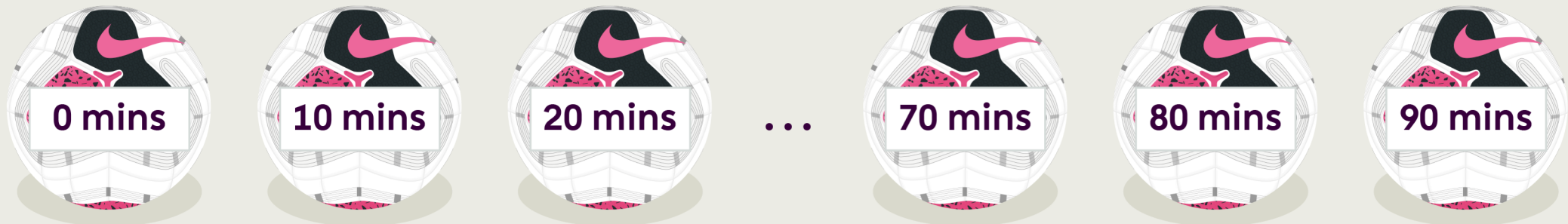
Tip: Start by placing the kick-off event at the beginning of your timeline.

Once you have labelled your timeline, try and answer the questions.



Football timeline 2

Timeline 2: A 90-minute timeline in 10 minute increments. You will need to place the time cards (that you can print or make) in a line and space them out with a sensible gap, each labelled in **10** minute increments. The first time card is labelled as 0 minutes, then the second 10 minutes, 20 minutes etc. until you reach 90 minutes.



These events are jumbled up.

Can you place them
in their correct order
on your timeline?



Full-time

A. The full-time whistle was blown at the end of the match.



Full time!



Half-time

B. Halfway through the match, the referee blew the half-time whistle.

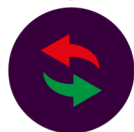


Half-time!



Goal!

C. There was a goal at 10 minutes.



Substitution

D. There was a substitution at 40 minutes.



Goal!

E. The other team scored an equaliser at 65 minutes.



Once you've shown events A-E, have a go at answering the following questions.

Note your answers down on a piece of paper.

1. How much time was there between the substitution and the second goal?
2. How much time passed between the two goals?
3. After the second goal, how much time was left for another goal to be scored?
4. The winning team score 12 minutes before the full-time whistle. Show this on your timeline. When do they score?

Answers

- A. Full-time card placed at 90 minutes
 - B. Half-time card placed at 45 minutes
 - C. Goal card placed at 10 minutes
 - D. Substitution card placed at 40 minutes
 - E. Equaliser card placed at 65 minutes
- **Q1.** 25 minutes
 - **Q2.** 55 minutes
 - **Q3.** 25 minutes
 - **Q4.** 78 minutes

Calculating with time in football

Football timeline 3

Maths resource

Upper KS2: Ages 9-11

Can you check your understanding of calculations involving time using these football match timelines?

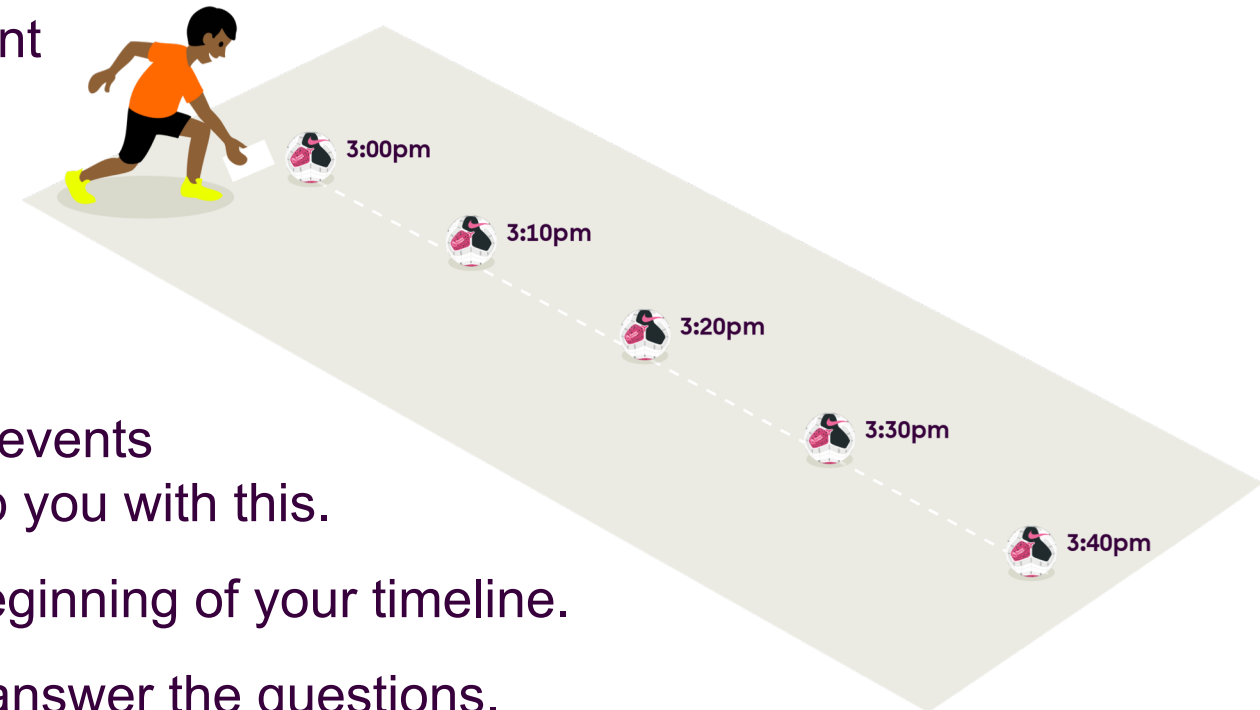
You will first need to make time and match event cards by writing on pieces of paper or printing off the ones found in the resource pack:

- Timeline cards
- Match event cards

Follow the instructions and add the key match events along the timeline. The word problems will help you with this.

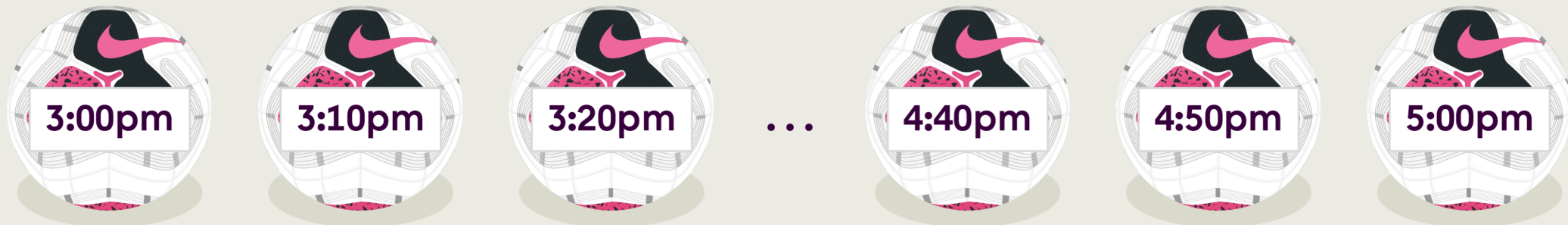
Tip: Start by placing the kick-off event at the beginning of your timeline.

Once you have labelled your timeline, try and answer the questions.



Football timeline 3

Timeline 3: A timeline running from 3:00pm to 5:00pm in 10 minute increments. You will need to place the time cards (that you can print or make) in a line and space them out with a sensible gap, each labelled in **10** minute increments. The first time card is labelled as 3:00pm, then the second 3:10pm, 3:20pm etc. until you reach 5:00pm.



These events are jumbled up.

Can you place them
in their correct order
on your timeline?



Kick-off

A. Kick-off is at 3:00pm



Goal!

B. There was a goal after 35 minutes.



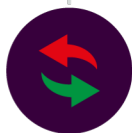
Half-time

C. The referee blows the half-time whistle.



Kick-off

D. Second half kick-off, if half-time lasts for 10 minutes.



Substitution

E. There was a substitution at 50 minutes.

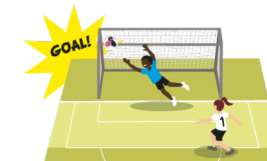


Goal!

E. There was another goal at 70 minutes.



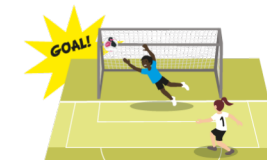
Kick-off!



Half-time!



Second
half!



Once you've shown events A-F, have a go at answering the following questions.

Note your answers down on a piece of paper.

1. What time is the first goal scored?
2. When does the second half start?
3. What time is the substitution?
4. What time is the second goal?
5. How much time passes between the two goals?
6. There are four minutes of added time at the end. At what time is the full-time whistle blown?

Answers

- A. Kick-off: 3:00pm
 - B. First goal: 3:35pm
 - C. Half-time: 3:45pm
 - D. Second half kick-off: 3:55pm
 - E. Substitution: 4:00pm (50 minutes is five minutes after 45 minutes, the second half kick-off)
 - F. Second goal: 4:20pm
- Q1. 3:35pm
 - Q2. 3:55pm
 - Q3. 4:00pm
 - Q4. 4:20pm
 - Q5. 45 minutes
 - Q6. 4:44pm