Time teasers

Learning objective: To solve time problems in words.

Answer the questions below in your books. Remember to show your working out.

1. Marcus started playing football at 3.15 and finished at 4.20. How long did he play football for?

2. The pie needed to be cooked for 35 minutes. It went in the oven at 12.10. When was it ready?

3. The bus journey began at 10.50 and finished at 11.15. How long was it?

4. Break time starts at 10.55 and finishes at 11.15. How long is it?

5. It takes Tina 25 minutes to walk to school. She needs to be there at 8.50. What time should she start walking?

6. Pizza takes 12 minutes to cook. It went in the oven at 5.50. When should it come out?

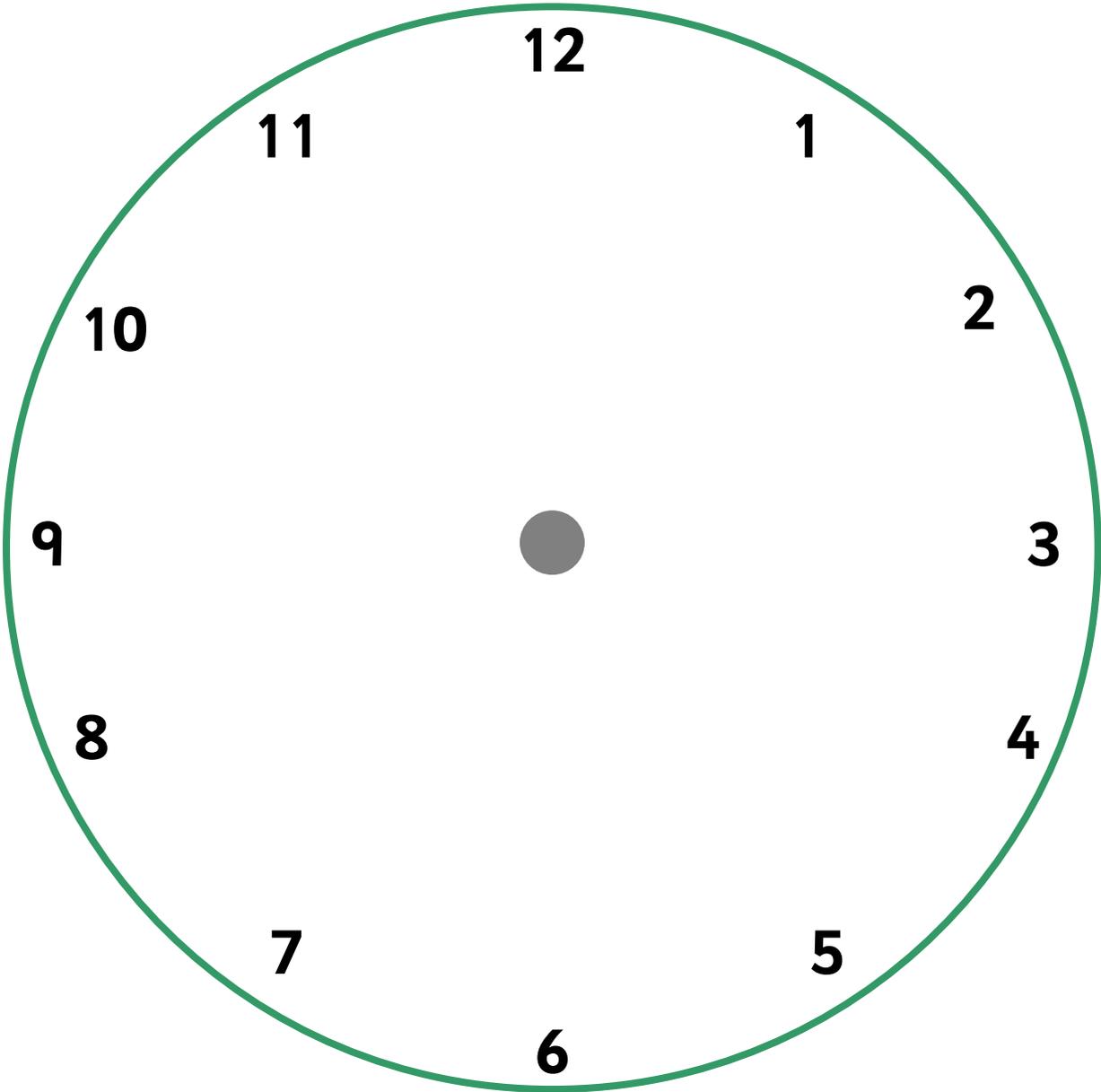7. Jane went into the library at 11.20 and came out at 12.10. How long did she spend in the library?

Now try this…

Look at Marigold's timetable and solve the time teasers!

8.45 – 9.00	9.00 – 9.50	9.50 – 10.45	10.45 – 11.10	11.10 – 12.05
Registration	Science	Maths	Break	French
12.05 – 1.25		1.25 – 2.10	2.10 – 2.45	2.45 – 3.30
Lunch		English	Art	History

1. How long is …
   a) Science?
   b) French?
   c) History?
   d) Lunch?
   e) Maths?

2. Which is the longest lesson?

3. How long is the school day?

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Answers

1. Marcus started playing football at 3.15 and finished at 4.20. How long did he play football for?

   Count on 45 minutes to 4.00 and 20 more minutes to 4.20
   Then 45 minutes + 20 minutes = 65 minutes = **1 hour and 5 minutes**

2. The pie needed to be cooked for 35 minutes. It went in the oven at 12.10. When was it ready?

   Count on 35 minutes from 12.10, *so* 12.10 + 35 = **12.45**

3. The bus journey began at 10.50 and finished at 11.15. How long was it?

   10.50 to 11.00 is ten minutes, then from 11.00 to 11.15 is another 15 minutes
   Then 10 minutes + 15 minutes = **25 minutes**

4. Break time starts at 10.55 and finishes at 11.15. How long is it?

   10.55 to 11.00 is 5 minutes, then from 11.00 to 11.15 is another 15 minutes
   Then 5 minutes + 15 minutes = **20 minutes**

5. It takes Tina 25 minutes to walk to school. She needs to be there at 8.50. What time should she start walking?

   Count back 25 minutes from 8.50, so 8.50 back 20 minutes would get back to 8.30 and back another 5 minutes would get back to 8.25. Answer: **She needs to start at walking at 8.25.**

6. Pizza takes 12 minutes to cook. It went in the oven at 5.50. When should it come out?

   10 minutes would take you to 6.00, and then 2 more minutes would take you to **6.02**

7. Jane went into the library at 11.20 and came out at 12.10. How long did she spend in the library?

   Count on 10 minutes to 11.30, then 30 minutes to 12.00 and a further 10 minutes to 12.10
   Then 10 minutes + 30 minutes + 10 minutes = **50 minutes**

Now try this…

1. How long is …
   a) Science? Count on 50 minutes from 9.00 = **50 minutes**
   b) French? Count on 50 minutes to 12.00 and another 5 minutes = **55 minutes**
   c) History? Count on 15 minutes to 3.00 and another 30 minutes to 3.30 = **45 minutes**
   d) Lunch? Count on 55 minutes to 1.00 and another 25 minutes to 1.25 = **1 hour 20 minutes**
   e) Maths? Count on 10 minutes to 10.00 and another 45 minutes to 10.45 = **55 minutes**

2. Which is the longest lesson? **French and maths**

3. How long is the school day? Count in hours from 9.00 to 3.00 and a half hour from 3.00 to 3.30 = **6 hours 30 minutes**