**Calculating with Time GREEN**

1) Jean is going to the beach. It takes her 25 minutes to get from her home to the beach. It takes her 25 minutes to get from the beach to her home. Jean leaves home at 2.40 pm. She has to get home by 6 pm. What is the greatest length of time Jean can stay at the beach?

………………………………………………

2) Jeff lives in Bath. He works in an office in London. Jeff leaves his home in Bath at 07 10. He catches a train in Bath at 07 35. The train takes 1 hour 35 minutes to get to London. It then takes Jeff 40 minutes to get to his office. At what time does Jeff get to his office?

………………………………………………

3) Jasmine wants to record a film on a DVD. The film is 95 minutes long. Jasmine's DVD has 1 ½ hours of recording time left. Can Jasmine record all of the film on this DVD? You must show your working.

………………………………………………

4) Jo and Liz work in the same shop. One day, Liz starts work at 9.30 am and stops working 5 hours later. Jo works from 11.30 am until 4.30 pm. Work out the number of hours that Jo and Liz are working at the same time.

………………………………………………

5) It takes Tom 1 hour to lay 30 bricks. He has to lay 180 bricks. Tom starts to lay the bricks at 9 am. He has half an hour break at 11 am. He has another half an hour break at 1 pm. What time should Tom finish laying the 180 bricks?

………………………………………………

6) Samantha has to go to a meeting. The meeting should start at 2 pm. Samantha gets to the meeting at 1 45 pm.

(a)   How long does Samantha have to wait until 2 pm?

………………………………………………

The 2 pm meeting starts 10 minutes late. The meeting lasts 55 minutes.

(b)   Work out the time the meeting finishes.

………………………………………………

Samantha then has to go to a 4 pm meeting. It will take Samantha 75 minutes to get to this meeting.

(c)   Can Samantha get to this meeting by 4 pm? You must show how you get your answer.

………………………………………………

7) Ahmed is going to catch the bus that leaves at 8.16 am. This bus takes 25 minutes to get to the bus stop in town. It will then take Ahmed 12 minutes to walk from the bus stop in town to the train station. Work out if Ahmed will be able to catch the 8.50 am train. Show how you get your answer.

………………………………………………

8) A film starts at 1830. The film ends at 2050

(a)   How long does the film last?

………………………………………………

Jan watches this film and then catches a bus home. The bus leaves the bus stop 18 minutes after the film ends. The bus takes 24 minutes to get to Jan's home.
(b)   Will Jan be home before 2130? You must show all your working.

………………………………………………

9) Here is a list of some TV programmes for one day.

|  |
| --- |
| 13 30   News  |
| 13 45   Doctors  |
| 14 10   Escape to the country  |
| 15 05   CBeebies  |
| 15 15   Gigglebiz  |
| 15 35   Jakers  |
| 15 55   Shaun the sheep  |
| 16 05   Dani's house  |

Caroline wants to record CBeebies and Jakers onto a DVD.

How many minutes of recording time does she need?

………………………………………………

10) (a) Write 8 45 pm as a 24-hour clock time.

………………………………………………

Seeta did a puzzle in 3 minutes 45 seconds. Ninal did the same puzzle in 7 minutes 28 seconds.

Seeta says,
                       'I did the puzzle in less than half the time Ninal did the puzzle.'

(b) Is Seeta right? You must show all your working.

 ………………………………………………

**Calculating with Time AMBER**

1) Jean is going to the beach. It takes her 25 minutes to get from her home to the beach. It takes her 25 minutes to get from the beach to her home. Jean leaves home at 2.40 pm. She has to get home by 6 pm. What is the greatest length of time Jean can stay at the beach?

Work out time Jean arrives at the beach and the time she must have left by.

………………………………………………

2) Jeff lives in Bath. He works in an office in London. Jeff leaves his home in Bath at 07 10. He catches a train in Bath at 07 35. The train takes 1 hour 35 minutes to get to London. It then takes Jeff 40 minutes to get to his office. At what time does Jeff get to his office?

Add the two travel times to Jeff’s departure time.

………………………………………………

3) Jasmine wants to record a film on a DVD. The film is 95 minutes long. Jasmine's DVD has 1 ½ hours of recording time left. Can Jasmine record all of the film on this DVD? You must show your working.

What is 1 ½ hours in minutes?

………………………………………………

4) Jo and Liz work in the same shop. One day, Liz starts work at 9.30 am and stops working 5 hours later. Jo works from 11.30 am until 4.30 pm. Work out the number of hours that Jo and Liz are working at the same time.

………………………………………………

5) It takes Tom 1 hour to lay 30 bricks. He has to lay 180 bricks. Tom starts to lay the bricks at 9 am. He has half an hour break at 11 am. He has another half an hour break at 1 pm. What time should Tom finish laying the 180 bricks?

………………………………………………

6) Samantha has to go to a meeting. The meeting should start at 2 pm. Samantha gets to the meeting at 1 45 pm.

(a)   How long does Samantha have to wait until 2 pm?

………………………………………………

The 2 pm meeting starts 10 minutes late. The meeting lasts 55 minutes.

(b)   Work out the time the meeting finishes.

………………………………………………

Samantha then has to go to a 4 pm meeting. It will take Samantha 75 minutes to get to this meeting.

(c)   Can Samantha get to this meeting by 4 pm? You must show how you get your answer.

………………………………………………

7) Ahmed is going to catch the bus that leaves at 8.16 am. This bus takes 25 minutes to get to the bus stop in town. It will then take Ahmed 12 minutes to walk from the bus stop in town to the train station. Work out if Ahmed will be able to catch the 8.50 am train. Show how you get your answer.

………………………………………………

8) A film starts at 1830. The film ends at 2050

(a)   How long does the film last?

………………………………………………

Jan watches this film and then catches a bus home. The bus leaves the bus stop 18 minutes after the film ends. The bus takes 24 minutes to get to Jan's home.
(b)   Will Jan be home before 2130? You must show all your working.

………………………………………………

9) Here is a list of some TV programmes for one day.

|  |
| --- |
| 13 30   News  |
| 13 45   Doctors  |
| 14 10   Escape to the country  |
| 15 05   CBeebies  |
| 15 15   Gigglebiz  |
| 15 35   Jakers  |
| 15 55   Shaun the sheep  |
| 16 05   Dani's house  |

Caroline wants to record CBeebies and Jakers onto a DVD.

How many minutes of recording time does she need?

………………………………………………

10) (a) Write 8 45 pm as a 24-hour clock time.

………………………………………………

Seeta did a puzzle in 3 minutes 45 seconds. Ninal did the same puzzle in 7 minutes 28 seconds.

Seeta says,
                       'I did the puzzle in less than half the time Ninal did the puzzle.'

(b) Is Seeta right? You must show all your working.

 ………………………………………………

**Calculating with Time RED**

1) Jean is going to the beach. It takes her 25 minutes to get from her home to the beach. It takes her 25 minutes to get from the beach to her home. Jean leaves home at 2.40 pm. She has to get home by 6 pm. What is the greatest length of time Jean can stay at the beach?

 2.40 + 25 mins = \_\_\_\_\_\_\_\_\_\_\_\_\_

 6pm – 25 mins = \_\_\_\_\_\_\_\_\_\_\_\_\_

Work out time Jean arrives at the beach and the time she must have left by.

………………………………………………

2) Jeff lives in Bath. He works in an office in London. Jeff leaves his home in Bath at 07 10. He catches a train in Bath at 07 35. The train takes 1 hour 35 minutes to get to London. It then takes Jeff 40 minutes to get to his office. At what time does Jeff get to his office?

Add the two travel times to Jeff’s departure time.

  07 35 + 1 hr 35 mins = \_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_ + 40 mins = \_\_\_\_\_\_\_\_\_\_\_\_\_

………………………………………………

3) Jasmine wants to record a film on a DVD. The film is 95 minutes long. Jasmine's DVD has 1 ½ hours of recording time left. Can Jasmine record all of the film on this DVD? You must show your working.

What is 1 ½ hours in minutes?

………………………………………………

4) Jo and Liz work in the same shop. One day, Liz starts work at 9.30 am and stops working 5 hours later. Jo works from 11.30 am until 4.30 pm. Work out the number of hours that Jo and Liz are working at the same time.

Work out the overlap using the diagram.

 Liz 9:30 - - - - - - 🡪 **14:30**

 Jo **11:30** - - - - - - - 🡪 16:30

………………………………………………

5) It takes Tom 1 hour to lay 30 bricks. He has to lay 180 bricks. Tom starts to lay the bricks at 9 am. He has half an hour break at 11 am. He has another half an hour break at 1 pm. What time should Tom finish laying the 180 bricks?

How long will it take to lay all the bricks?

  180 ÷ 30 = \_\_\_\_\_\_\_\_\_\_\_\_\_hours

………………………………………………

6) Samantha has to go to a meeting. The meeting should start at 2 pm. Samantha gets to the meeting at 1 45 pm.

(a)   How long does Samantha have to wait until 2 pm?

………………………………………………

The 2 pm meeting starts 10 minutes late. The meeting lasts 55 minutes.

(b)   Work out the time the meeting finishes.

………………………………………………

Samantha then has to go to a 4 pm meeting. It will take Samantha 75 minutes to get to this meeting.

(c)   Can Samantha get to this meeting by 4 pm? You must show how you get your answer.

………………………………………………

7) Ahmed is going to catch the bus that leaves at 8.16 am. This bus takes 25 minutes to get to the bus stop in town. It will then take Ahmed 12 minutes to walk from the bus stop in town to the train station. Work out if Ahmed will be able to catch the 8.50 am train. Show how you get your answer.

………………………………………………

8) A film starts at 1830. The film ends at 2050

(a)   How long does the film last?

………………………………………………

Jan watches this film and then catches a bus home. The bus leaves the bus stop 18 minutes after the film ends. The bus takes 24 minutes to get to Jan's home.
(b)   Will Jan be home before 2130? You must show all your working.

………………………………………………

9) Here is a list of some TV programmes for one day.

|  |
| --- |
| 13 30   News  |
| 13 45   Doctors  |
| 14 10   Escape to the country  |
| 15 05   CBeebies  |
| 15 15   Gigglebiz  |
| 15 35   Jakers  |
| 15 55   Shaun the sheep  |
| 16 05   Dani's house  |

Caroline wants to record CBeebies and Jakers onto a DVD.

How many minutes of recording time does she need?

………………………………………………

10) (a) Write 8 45 pm as a 24-hour clock time.

………………………………………………

Seeta did a puzzle in 3 minutes 45 seconds. Ninal did the same puzzle in 7 minutes 28 seconds.

Seeta says,
                       'I did the puzzle in less than half the time Ninal did the puzzle.'

(b) Is Seeta right? You must show all your working.

 ………………………………………………