

Summer Week 10 Lesson 2 – 30.06.20

STARTER: Counting coins

Stepping Stone:

| | | | |
|--|---|---|---|
| 1.0 How many 5p coins are in £0.25? | 2.0 How many 10p coins are in £1.10? | 3.0 How many £2 coins are in £20.00? | 4.0 How many 10p coins are in £2.70? |
|--|---|---|---|

Mild:

| | | | |
|---|--|--|--|
| 5.0 How many 10p coins are in £1.30? | 6.0 How many 50p coins are in £33.00? | 7.0 How many 20p coins are in £14.00? | 8.0 How many 2p coins are in £1.36? |
|---|--|--|--|

Spicy:

| | | | |
|--|--|---|---|
| 9.0 How many 20p coins are in £38.80? | 10.0 How many 10p coins are in £4.40? | 11.0 How many 2p coins are in £5.52? | 12.0 How many 2p coins are in £2.60? |
|--|--|---|---|

Red hot:

| | | | |
|--|--|---|--|
| 13.0 How many 5p coins are in £14.40? | 14.0 How many 5p coins are in £27.90? | 15.0 How many 10p coins are in £12.80? | 16.0 How many 5p coins are in £10.70? |
|--|--|---|--|

Task:

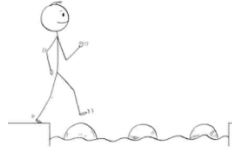
You are going to look at **timetables** to extract information. You will need to use your skills of understanding **time intervals** and your **reasoning and problem solving skills**.

IMPORTANT

Reading timetables is a Year 5 objective. As this lesson is also for Year 4, you will see that there are two tasks for the Steppingstone activity. Even if you don't normally do the Steppingstone activities, you might find that they are a good place to start for this lesson. Then you can work your way up through the challenges.

Success Criteria:

| |
|---|
| 1. Find the departure location on the timetable and look at the time. |
| 2. Find the arrival location on the timetable and look at the time. |
| 3. Work out the time it takes to get from departure to arrival. |
| 4. Use your knowledge of telling the time. |



Model: This will be modelled on the video

| Destination | Journey A | Journey B | Journey C |
|-------------|-----------|-----------|-----------|
| London | 10:20 | 11:30 | 16:40 |
| Derby | 12:20 | | 18:00 |
| Sheffield | 12:40 | 13:10 | 18:30 |
| York | 13:20 | 13:55 | 19:15 |
| Newcastle | 14:25 | 14:40 | |
| Duration | | | 3 hours |

24 hour clock:

13:00 = 1.00pm
 14:00 = 2.00pm
 15:00 = 3.00pm
 16:00 = 4.00pm
 17:00 = 5.00pm
 18:00 = 6.00pm
 19:00 = 7.00pm
 20:00 = 8.00pm
 21:00 = 9.00pm
 22:00 = 10.00pm
 23:00 = 11.00pm
 00:00 = midnight
 / 12.00am

You need to be in Sheffield for 13:00. Which is the best journey to take?

| Sunday Train Times | | | |
|--------------------|--------------|-----------|-----------|
| Destination | Journey A | Journey B | Journey C |
| London | 12:20 | 13:30 | 18:40 |
| Derby | 14:20 | | |
| Sheffield | | | |
| York | | | |
| Newcastle | | | |
| Duration | | | |

Sunday trains run exactly two hours later than the rest of the week. Fill in the timetable above.

| Destination | Journey A | Journey B | Journey C |
|-------------|-----------|-----------|-----------|
| London | 10:20 | 11:30 | 16:40 |
| Derby | 12:20 | | 18:00 |
| Sheffield | 12:40 | 13:10 | 18:30 |
| York | 13:20 | 13:55 | 19:15 |
| Newcastle | 14:25 | 14:40 | |
| | | | |
| Duration | | | 3 hours |

- Journey B takes 1 hour to get from London to Derby. What time do you arrive at Derby?

- Journey C takes a total of 3 hours. What time does it arrive at Newcastle?

- How long does journey A take? _____
- You need to be at York for 13:30. Which is the best journey to take?

- You arrive at Sheffield train station at 18:10. How long do you have to wait for the next train to Newcastle? _____
- How many stations does the 11:30 train stop at before it reaches York?

| | Sunday Train Times | | |
|-------------|--------------------|-----------|-----------|
| Destination | Journey A | Journey B | Journey C |
| London | 12:20 | 13:30 | 18:40 |
| Derby | | | |
| Sheffield | | | |
| York | | | |
| Newcastle | | | |
| | | | |
| Duration | | | |

7. Sunday trains run exactly 2 hours later than the rest of the week. Fill in the timetable above.

8. Create your own train timetable with three journeys. Use your own stations and times.

| Destination | Journey __ | Journey __ | Journey __ |
|-------------|------------|------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Model: These will be modelled on the video

True or false?

If Thomas misses the 08:50 from Acton, he will arrive in Hayes 45 minutes later than planned.

| | | | | |
|-----------------|-------|-------|-------|-------|
| London | 08:05 | 08:35 | 09:05 | 09:15 |
| Acton | 08:20 | 08:50 | 09:20 | 09:30 |
| <u>Ealing</u> | 08:30 | ----- | 09:30 | ----- |
| <u>Southall</u> | 08:45 | 09:10 | 09:45 | 09:45 |
| Hayes | 09:05 | 09:25 | 10:05 | 10:05 |

Explain your answer.

False because the next train arrives at Hayes at 10:05 which is 40 minutes later than 9:25, not 45.

Meena is being picked up from the cinema at 14:00. Will she be able to watch Wandering Lily and City of Dancers?

If not, how much later should she ask to be picked up?

| Screen 1 | | Screen 2 | |
|----------|-----------------|----------|-----------------|
| 10:00 | Toy Time | 09:30 | Wolf Tales |
| 11:50 | Racers | 11:15 | Wandering Lily |
| 13:30 | City of Dancers | 13:30 | Ben's Adventure |
| 15:20 | Super Car | 15:10 | Tail Spin |

If she watches both films, she will need to be picked up at 15:20 which is 1 hour and 20 minutes later.

MILD

1a. True or false?

Eesa can watch all of Wacky Time, Wonky Donkey and Wok It!

Explain your answer.

| Kids Channel | | Food Channel | |
|--------------|--------------|--------------|-----------------|
| 19:00 | Wacky Time | 19:00 | Chicken Dinners |
| 19:45 | Wonky Donkey | 19:45 | Just Cook |
| 20:15 | Catch Me! | 20:00 | Wok it! |
| 21:15 | Quiz | 21:00 | Party Food |



S R

2a. Toby is going to be 1 hour and 45 minutes late on Tuesday.

What time will he arrive at school?

Which subjects will he miss?

| | 09-10 | | 10:30-12 | | 1:00-2:15 |
|-----|---------|-----------------------|----------|-----------------------|-----------|
| Mon | English | B r e a k | Science | L u n c h | History |
| Tue | Maths | | PE | | Geography |
| Wed | Art | | Maths | | English |
| Thu | English | | Science | | DT |
| Fri | Maths | | Maths | | PE |



S PS

3a. Abbie needs to be in Halifax by 1pm.

She thinks that the best train to catch from Mytholmroyd is the 12:15 because it is the quickest.

Is she correct? Explain why or why not.

| | | | | |
|----------------|-------|-------|-------|-------|
| Hebden Bridge | 11:30 | 12:00 | 12:30 | 13:00 |
| Mytholmroyd | 11:45 | 12:15 | ----- | 13:15 |
| Sowerby Bridge | ----- | ----- | 13:00 | ----- |
| Halifax | 12:15 | ----- | 13:15 | 13:45 |
| Bradford | 13:00 | 13:00 | 14:00 | 14:30 |



S R

SPICY

4a. True or false?

If Millie misses the 19:35 train from Mytholmroyd, she will have to wait 35 minutes for the next one.

Explain your answer.

| | | | | |
|----------------|-------|-------|-------|-------|
| Hebden Bridge | 19:20 | 19:35 | 19:45 | 19:50 |
| Mytholmroyd | 19:35 | ----- | ----- | 20:05 |
| Sowerby Bridge | ----- | ----- | 19:55 | ----- |
| Halifax | 19:55 | ----- | 20:15 | 20:25 |
| Bradford | 20:40 | 20:35 | 20:55 | 21:05 |



S R

5a. Jaiden is allowed to watch TV for 1 hour and 20 minutes. Can he watch Footy Time, Bake It! and Super Chef?

If not, how much longer needs to be added to his time allowance?

| Sports Channel | | Food Channel | |
|----------------|---------------|--------------|--------------|
| 16:00 | Footy Time | 16:00 | Won't Cook |
| 16:35 | Glorious Golf | 16:35 | Super Chef |
| 17:15 | Racing | 17:15 | Bake it! |
| 18:15 | Goals | 18:15 | Dinner Party |



S PS

6a. Becky is working on a timetable for Sports Day.

Has she made any mistakes?
Explain your answer.

| | Sprint | Sack Race | Javelin |
|---------|--------|-----------|---------|
| Class 1 | 13:15 | 13:45 | 13:35 |
| Class 2 | 13:25 | 13:55 | 13:25 |
| Class 3 | 13:35 | 13:25 | 13:45 |
| Class 4 | 13:45 | 13:35 | 13:15 |
| Class 5 | 13:55 | 13:15 | 13:35 |



S R

RED HOT

7a. True or false?

Frankie will arrive in Manchester 40 minutes later than planned if he misses the 08:10 bus from the bus station.

Explain your answer.

| | | | | |
|------------------|-------|-------|-------|-------|
| Bus Station | 08:02 | 08:10 | 08:18 | 08:26 |
| Leeds Road | 08:11 | ----- | ----- | 08:35 |
| Shopping Village | 08:19 | ----- | 08:36 | 08:43 |
| High Street | 08:52 | ----- | 09:11 | 09:18 |
| Manchester | 09:17 | 09:04 | ----- | 09:44 |
| Train Station | 09:33 | 09:17 | 09:41 | 09:59 |



S R

8a. Ruby lives in Bradford. She has to be home by half past five. She arrives at Mytholmroyd station at 4:15pm.

How long will she have to wait for the train?

How late home will she be?

| | | | | |
|----------------|-------|-------|-------|-------|
| Hebden Bridge | 16:02 | 16:21 | 16:47 | 17:06 |
| Mytholmroyd | 16:11 | ----- | ----- | 17:15 |
| Sowerby Bridge | 16:23 | ----- | 17:04 | ----- |
| Halifax | 16:32 | ----- | 17:12 | 17:29 |
| Bradford | 16:57 | 16:55 | 17:33 | 17:48 |



S PS

9a. Euan is planning his journey from Meadowhall to the bus station. His plan is to catch the 19:26 train.

Is this his best option?

Explain your answer.

| | | | | |
|-------------|-------|-------|-------|-------|
| Sheffield | 19:01 | 19:14 | 19:32 | 19:51 |
| Meadowhall | ----- | 19:26 | 19:45 | 20:06 |
| Doncaster | 19:55 | ----- | ----- | 20:28 |
| Leeds | 20:19 | 20:47 | ----- | 21:13 |
| Bradford | ----- | 21:22 | ----- | 21:49 |
| Bus Station | 21:16 | 21:43 | 21:35 | 22:34 |



S R