

# Statistics: Cinema Timetables

<b>Aim:</b> Complete, read and interpret information in tables, including timetables.  I can complete, read and interpret information presented in a cinema timetable.	<b>Success Criteria:</b> I can read and interpret a cinema timetable written using 24-hour time.  I can calculate how much time has passed in hours and minutes.  I can answer questions about the information shown in a cinema timetable.	<b>Resources:</b> Lesson Pack
	<b>Key/New Words:</b> Timetable, table, data.	<b>Preparation:</b> Differentiated Cinema Timetable Activity Sheets - one per child

**Prior Learning:** It will be helpful if children have experience of interpreting data in tables and can read, write and convert time on both analogue and digital clocks.

## Learning Sequence

	<b>Film Time Clocks:</b> Children calculate how much time has passed between two times shown on analogue clocks. This calculation is modelled with a number line on the Lesson Presentation to provide support as required. They show their answers on whiteboards, calculating how much time has passed in hours and minutes.				
	<b>Going to the Cinema:</b> Use the timetable shown on the Lesson Presentation to discuss the features of a cinema timetable. Point out what each heading and row shows.				
	<b>Cinema Timetable Questions:</b> Practise reading and interpreting cinema timetables accurately by answering questions about the durations of the films and identifying which films children are able to see.				
	<b>Cinema Timetables:</b> Children complete the differentiated Cinema Timetables Activity Sheets to show they can complete, read and interpret information in a timetable written using 24-hour time. <table style="width: 100%; text-align: center;"> <tr> <td> Complete, read and interpret a cinema timetable. Answer questions that involve calculating simple durations of films.</td> <td> Complete, read and interpret a cinema timetable. Answer questions that involve calculating durations of films.</td> <td> Complete, read and interpret a cinema timetable. Answer questions that involve calculating more complex durations of films.</td> </tr> </table>	Complete, read and interpret a cinema timetable. Answer questions that involve calculating simple durations of films.	Complete, read and interpret a cinema timetable. Answer questions that involve calculating durations of films.	Complete, read and interpret a cinema timetable. Answer questions that involve calculating more complex durations of films.	
Complete, read and interpret a cinema timetable. Answer questions that involve calculating simple durations of films.	Complete, read and interpret a cinema timetable. Answer questions that involve calculating durations of films.	Complete, read and interpret a cinema timetable. Answer questions that involve calculating more complex durations of films.			
	<b>Question Time:</b> The children use the cinema timetable shown on the _____ to write their own questions for a friend to answer.				
	<b>Film Treats:</b> Use the table on the _____ that gives the prices of different cinema snacks to read, interpret and answer questions about the information presented in the table.				

## Exploreit

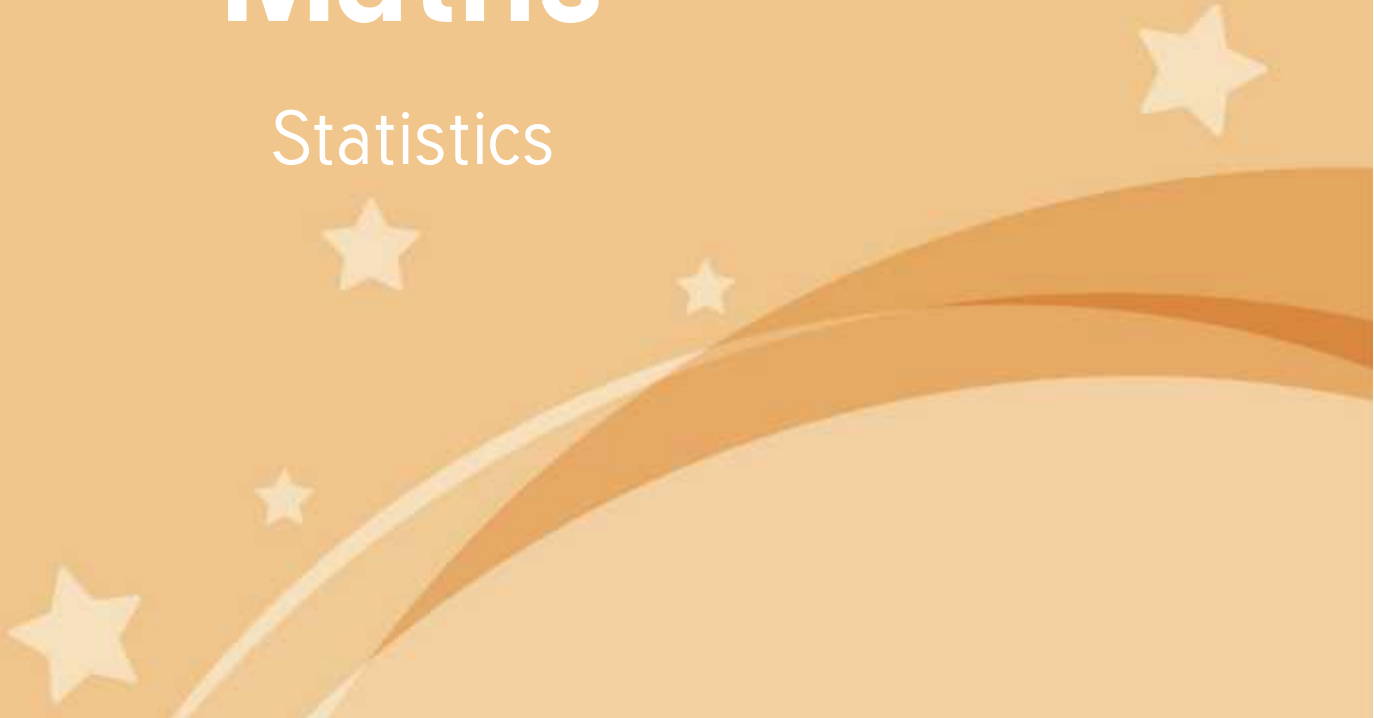
**Doit:** Children practise converting the times given on 12-hour bus timetables into 24-hour times.

**Exploreit:** Use real-life examples of local cinema timetables to write and answer questions about time.

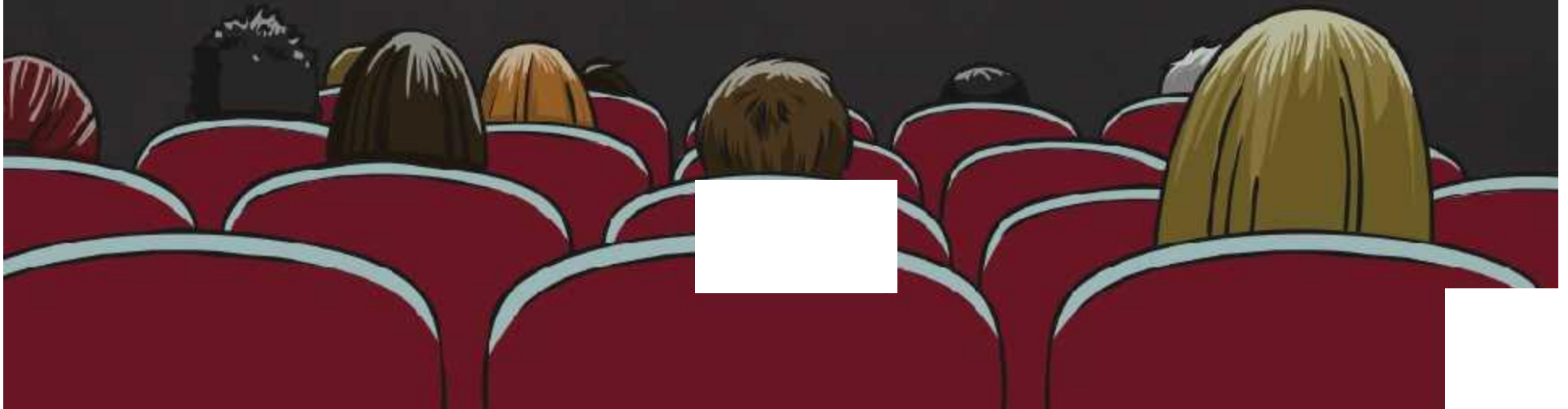


# Maths

## Statistics



# Cinema Timetables



# Aim

- I can complete, read and interpret information presented in a cinema timetable.

# Success Criteria

- I can read and interpret a cinema timetable written using 24-hour time.
- I can calculate how much time has passed in hours and minutes.
- I can answer questions about the information shown in a cinema timetable.

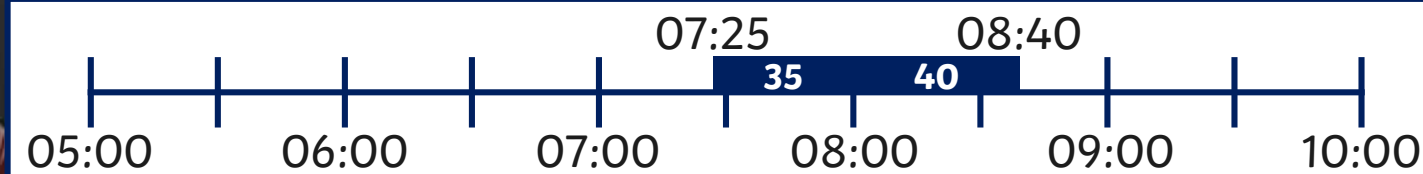
# Film Time Clocks



The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



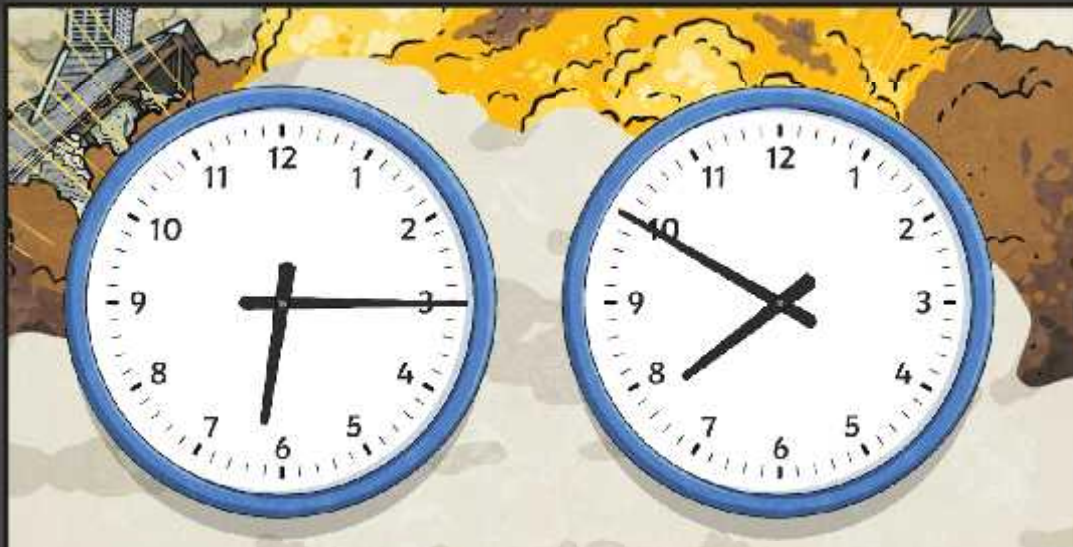
75 minutes = 1 hour and 15 minutes



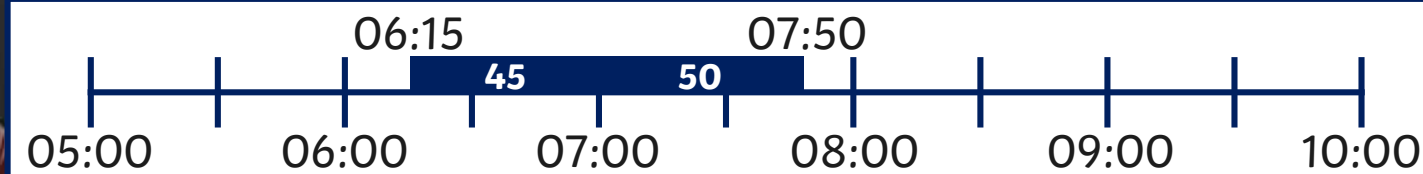
# Film Time Clocks



The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



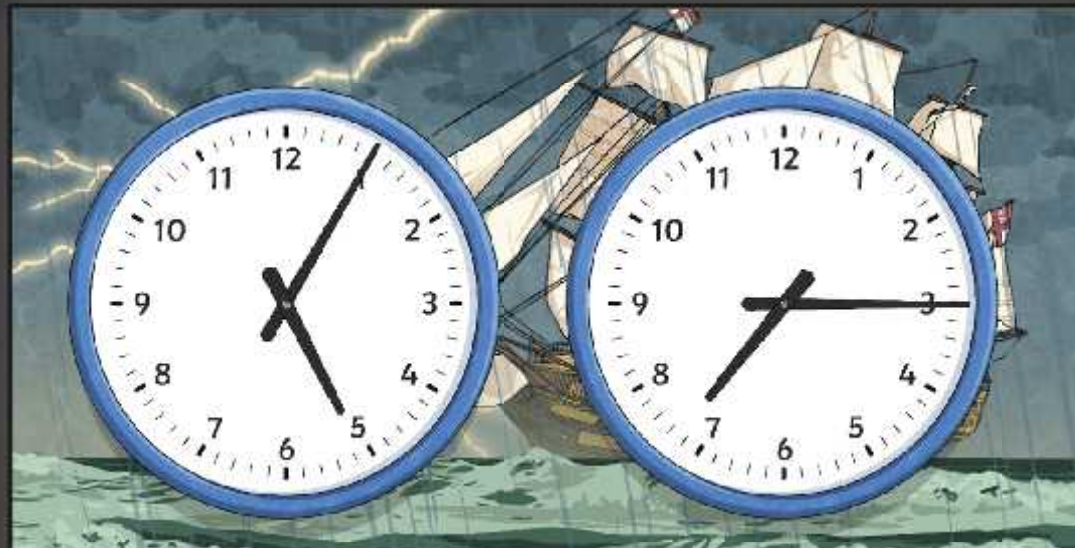
95 minutes = 1 hour and 35 minutes



# Film Time Clocks



The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



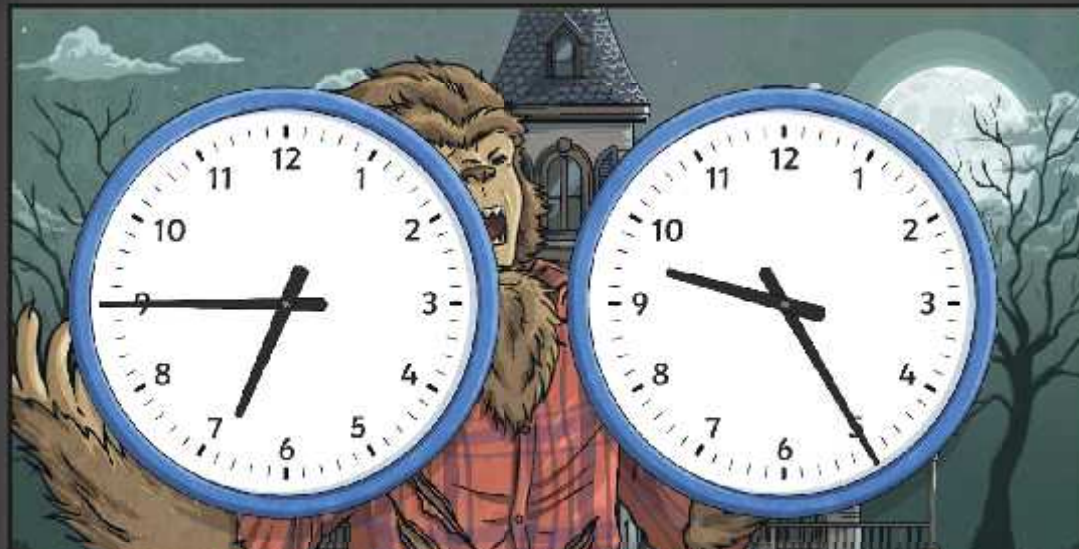
130 minutes = 2 hours and 10 minutes



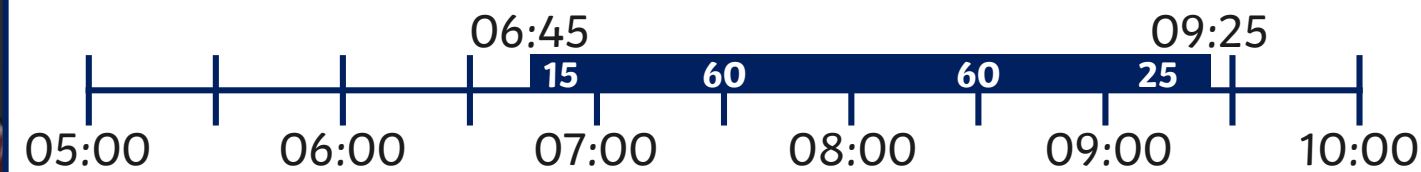
# Film Time Clocks



The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



160 minutes = 2 hours and 40 minutes





# Going to the Cinema

It's Megan's birthday. She has invited some of her friends to the cinema to see a film. They use the timetable to find out what films are showing on her birthday.

Twinkl Cinema Timetable							
	<b>Forever Friends</b>						
	09:20	11:05	12:50	14:35	16:20	18:05	19:50
	<b>Clowning Around</b>						
	09:00	10:55	12:50	14:45	16:40	18:35	20:30
	<b>Ghost House</b>						
	09:30	11:10	12:50	14:30	16:10	17:50	19:30
	<b>Super Sonic</b>						
	09:10	11:15	13:20	15:25	17:30	19:35	
	<b>Dance School</b>						
	09:15	11:30	13:45	16:00	18:15	20:30	

# Cinema Timetable Questions



We can see that the film has finished at the cinema staff are given 15 minutes to change the room before the next showing.

## Twinkl Cinema Timetable



### Forever Friends

09:20 11:05 12:50



### Clowning Around

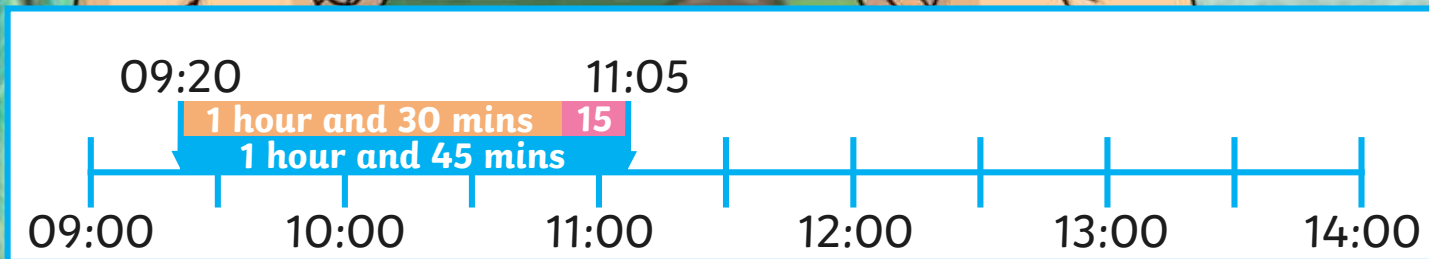
09:00 10:55 12:50 14:45 16:40 18:35 20:30



### Ghost House

09:30 11:10 12:50 14:30 16:10 17:50 19:30

Forever Friends is 1 hour and 30 minutes long.



# Cinema Timetable Questions



If she arrives at the cinema at 09:15 to watch a film and need to leave at 11:15 to catch her bus home, which films can she watch?

Twinkl Cinema Timetable								
	<b>Forever Friends</b> ✓	<b>09:20</b>	<b>11:05</b>	<b>12:50</b>	<b>14:35</b>	<b>16:20</b>	<b>18:05</b>	<b>19:50</b>
	<b>Clowning Around</b> ✗	<b>09:00</b>	<b>10:55</b>	<b>12:50</b>	<b>14:45</b>	<b>16:40</b>	<b>18:35</b>	<b>20:30</b>
	<b>Ghost House</b> ✓	<b>09:30</b>	<b>11:10</b>	<b>12:50</b>	<b>14:30</b>	<b>16:10</b>	<b>17:50</b>	<b>19:30</b>
	<b>Super Sonic</b> ✗	<b>09:10</b>	<b>11:15</b>	<b>13:20</b>	<b>15:25</b>	<b>17:30</b>	<b>19:35</b>	
	<b>Dance School</b> ✗	<b>09:15</b>	<b>11:15</b>	<b>13:45</b>	<b>16:00</b>	<b>18:15</b>	<b>20:30</b>	

# Cinema Timetables



Use your terrific timetable skills to complete this activity.

### Cinema Timetables

Uwaga: wszystkie filmy i serialy animowane przedstawione w tabeli poniżej.

**Twój Cinema Timetable**

Movie/Serial	09:30	10:35	12:35	14:35	16:35
Forever Friends					
Learning to Swim					
Cherry Juice					
Paper Series					
Ducks & Co.					

Wybierz 3 filmy lub serialy, dla których są dane godziny. Uzupełnij tabelę poniżej, wpisując, ile minut trwa każdy z nich. Pamiętaj, że każda godzina trwa 60 minut.

Forever Friends: \_\_\_\_\_  
 Learning to Swim: \_\_\_\_\_  
 Cherry Juice: \_\_\_\_\_  
 Paper Series: \_\_\_\_\_  
 Ducks & Co.: \_\_\_\_\_

1) [Peggy] must be the owner of 7115 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

2) [Peggy] must be the owner of 12940 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

### Cinema Timetables

Uwaga: wszystkie filmy i serialy animowane przedstawione w tabeli poniżej.

**Twój Cinema Timetable**

Movie/Serial	09:30	10:40	12:00	13:30	14:50	16:30
Forever Friends						
Learning to Swim						
Cherry Juice						
Paper Series						
Ducks & Co.						

Wybierz 3 filmy lub serialy, dla których są dane godziny. Uzupełnij tabelę poniżej, wpisując, ile minut trwa każdy z nich. Pamiętaj, że każda godzina trwa 60 minut.

Forever Friends: \_\_\_\_\_  
 Learning to Swim: \_\_\_\_\_  
 Cherry Juice: \_\_\_\_\_  
 Paper Series: \_\_\_\_\_  
 Ducks & Co.: \_\_\_\_\_

1) [Peggy] must be the owner of 7115 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

2) [Peggy] must be the owner of 12940 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

### Cinema Timetables

Uwaga: wszystkie filmy i serialy animowane przedstawione w tabeli poniżej.

**Twój Cinema Timetable**

Movie/Serial	09:20	10:5	12:5	14:35	16:20	18:05	19:50
Forever Friends							
Learning to Swim							
Cherry Juice							
Paper Series							
Ducks & Co.							

Wybierz 3 filmy lub serialy, dla których są dane godziny. Uzupełnij tabelę poniżej, wpisując, ile minut trwa każdy z nich. Pamiętaj, że każda godzina trwa 60 minut.

Forever Friends: \_\_\_\_\_  
 Learning to Swim: \_\_\_\_\_  
 Cherry Juice: \_\_\_\_\_  
 Paper Series: \_\_\_\_\_  
 Ducks & Co.: \_\_\_\_\_

1) [Peggy] must be the owner of 7115 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

2) [Peggy] must be the owner of 12940 amount of film and must be asked to help her gas station, as if [Peggy] could she be the to go to? \_\_\_\_\_

# Question Time



Use this cinema timetable to write your own question for a friend to answer.

## Twinkl Cinema Timetable

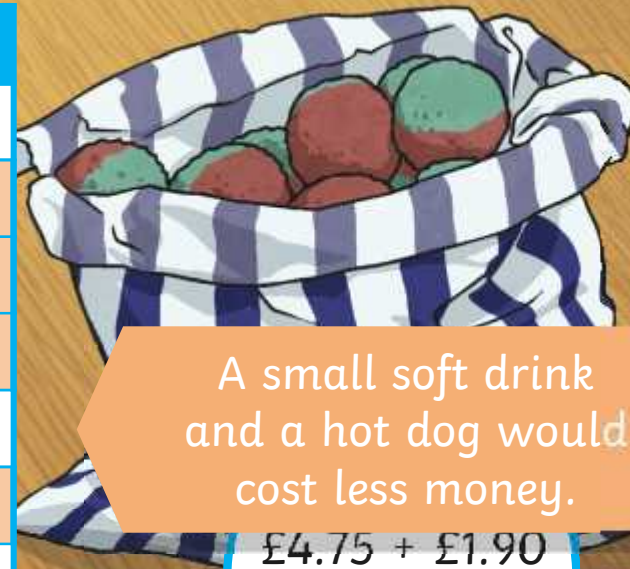
	<b>Forever Friends</b>	09:20	11:05	12:50	14:35	16:20	18:05	19:50
	<b>Clowning Around</b>	09:00	10:55	12:50	14:45	16:40	18:35	20:30
	<b>Ghost House</b>	09:30	11:10	12:50	14:30	16:10	17:50	19:30
	<b>Super Sonic</b>	09:10	11:15	13:20	15:25	17:30	19:35	
	<b>Dance School</b>	09:15	11:30	13:45	16:00	18:15	20:30	
	<b>Thrill Seekers (3D)</b>	10:50	12:30	14:10	15:50	17:30	19:10	

# Film Treats



This table shows the price of each snack that the cinema sells.

Snack	Price
Medium popcorn	£4.60
Large popcorn	£5.10
Bag of sweets	£2.75
Hot dog	£4.75
Ice cream	£4.10
Small soft drink	£1.90
Medium soft drink	£2.25
Large soft drink	£2.85
Frozen drink	£6.25



A small soft drink  
and a hot dog would  
cost less money.

$$\begin{aligned} & \pounds 4.75 + \pounds 1.90 \\ & = \pounds 6.65 \end{aligned}$$

# Aim



- I can complete, read and interpret information presented in a cinema timetable.

# Success Criteria

- I can read and interpret a cinema timetable written using 24-hour time.
- I can calculate how much time has passed in hours and minutes.
- I can answer questions about the information shown in a cinema timetable.





Aim: I can complete, read and interpret information presented in a cinema timetable.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can read and interpret a cinema timetable written using 24-hour time.				Notes/Evidence					
I can calculate how much time has passed in hours and minutes.									
I can answer questions about the information shown in a cinema timetable.									
Next Steps									
) _____									
) _____									

<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice

Aim: I can complete, read and interpret information presented in a cinema timetable.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can read and interpret a cinema timetable written using 24-hour time.				Notes/Evidence					
I can calculate how much time has passed in hours and minutes.									
I can answer questions about the information shown in a cinema timetable.									
Next Steps									
) _____									
) _____									


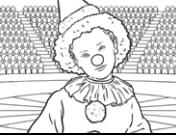



<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice



# Cinema Timetables

I can complete, read and interpret information presented in a cinema timetable.



Twinkl Cinema Timetable							
	Forever Friends						
	09:20	11:05	12:50	14:35	16:20	18:05	19:50
	Clowning Around						
	09:00	10:55	12:50	14:45	16:40	18:35	20:30
	Ghost House						
	09:30	11:10	12:50	14:30	16:10	17:50	19:30
	Super Sonic						
	09:10	11:15	13:20	15:25	17:30	19:35	
	Dance School						
	09:15	11:30	13:45	16:00	18:15	20:30	

- 1) After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.

Forever Friends: \_\_\_\_\_

Clowning Around: \_\_\_\_\_

Ghost House: \_\_\_\_\_

Super Sonic: \_\_\_\_\_

Dance School: \_\_\_\_\_


- 2) If Megan arrived at the cinema at 11:00 to watch a film and needed to leave at 13:00 to catch her bus home, which films would she be able to watch?

\_\_\_\_\_

- 3) If Megan arrived at the cinema at 12:30 to watch a film and needed to leave at 15:00 to catch her bus home, which films would she be able to watch?



4) Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 90 minutes. The first showing is at 09:00 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.

	Thrill Seekers (3D)						
	09:00						



# Cinema Timetables **Answers**


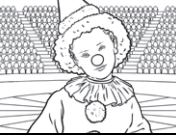



Question	Answer							
1.	After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.							
	Forever Friends: <b>90 minutes</b>							
	Clowning Around: <b>100 minutes</b>							
	Ghost House: <b>85 minutes</b>							
	Super Sonic: <b>110 minutes</b>							
	Dance School: <b>120 minutes</b>							
2.	If Megan arrived at the cinema at 11:00 to watch a film and needed to leave at 13:00 to catch her bus home, which films would she be able to watch?							
	<b>Forever Friends and Ghost House.</b>							
3.	If Megan arrived at the cinema at 12:30 to watch a film and needed to leave at 15:00 to catch her bus home, which films would she be able to watch?							
	<b>Forever Friends, Clowning Around and Ghost House.</b>							
4.	Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 90 minutes. The first showing is at 09:00 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.							
	09:00	10:45	12:30	14:15	16:00	17:45	19:30	21:15



# Cinema Timetables

I can complete, read and interpret information presented in a cinema timetable.



Twinkl Cinema Timetable							
	Forever Friends						
	09:20	11:10	13:00	14:50	16:40	18:30	20:20
	Clowning Around						
	09:00	11:00	13:00	15:00	17:00	19:00	21:00
	Ghost House						
	09:30	11:05	12:40	14:15	15:50	17:25	19:00
	Super Sonic						
	09:10	11:20	13:30	15:40	17:50	20:00	
	Dance School						
	09:15	11:20	13:25	15:30	17:35	19:40	

- 1) After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.

Forever Friends: \_\_\_\_\_

Clowning Around: \_\_\_\_\_

Ghost House: \_\_\_\_\_

Super Sonic: \_\_\_\_\_

Dance School: \_\_\_\_\_

- 2) If Megan arrived at the cinema at 11:15 to watch a film and needed to leave at 14:00 to catch her bus home, which films would she be able to watch?


\_\_\_\_\_

- 3) If Megan arrived at the cinema at 12:50 to watch a film and needed to leave at 15:35 to catch her bus home, which films would she be able to watch?

\_\_\_\_\_



4) Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 85 minutes. The first showing is at 09:10 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.

	Thrill Seekers (3D)						
	09:10						



# Cinema Timetables **Answers**


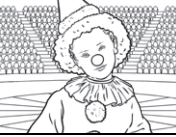



Question	Answer
1.	After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.
	Forever Friends: <b>95 minutes</b>
	Clowning Around: <b>105 minutes</b>
	Ghost House: <b>80 minutes</b>
	Super Sonic: <b>115 minutes</b>
	Dance School: <b>110 minutes</b>
2.	If Megan arrived at the cinema at 11:15 to watch a film and needed to leave at 14:00 to catch her bus home, which films would she be able to watch?
	<b>Forever Friends, Super Sonic and Dance School.</b>
3.	If Megan arrived at the cinema at 12:50 to watch a film and needed to leave at 15:35 to catch her bus home, which films would she be able to watch?
	<b>Forever Friends, Clowning Around and Dance School.</b>
4.	Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 85 minutes. The first showing is at 09:10 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.
	09:00      10:50      12:30      14:10      15:50      17:30      19:10      21:00



# Cinema Timetables

I can complete, read and interpret information presented in a cinema timetable.



Twinkl Cinema Timetable							
	Forever Friends						
	09:20	11:27	13:34	15:41	17:48	19:55	
	Clowning Around						
	09:00	10:53	12:46	14:39	16:32	18:25	20:18
	Ghost House						
	09:30	11:17	13:04	14:51	16:38	18:25	20:12
	Super Sonic						
	09:10	11:23	13:36	15:49	18:02	20:15	
	Dance School						
	09:15	11:14	13:13	15:12	17:11	19:10	

- 1) After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.

Forever Friends: \_\_\_\_\_

Clowning Around: \_\_\_\_\_

Ghost House: \_\_\_\_\_

Super Sonic: \_\_\_\_\_

Dance School: \_\_\_\_\_

- 2) If Megan arrived at the cinema at 11:15 to watch a film and needed to leave at 14:00 to catch her bus home, which films would she be able to watch?

\_\_\_\_\_


- 3) If Megan arrived at the cinema at 12:40 to watch a film and needed to leave at 15:35 to catch her bus home, which films would she be able to watch?

\_\_\_\_\_





4) Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 94 minutes. The first showing is at 09:15 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.

	Thrill Seekers (3D)					
	09:15					



# Cinema Timetables **Answers**

Question	Answer
1.	After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.
	Forever Friends: <b>112 minutes</b>
	Clowning Around: <b>98 minutes</b>
	Ghost House: <b>92 minutes</b>
	Super Sonic: <b>118 minutes</b>
	Dance School: <b>104 minutes</b>
2.	If Megan arrived at the cinema at 11:15 to watch a film and needed to leave at 14:00 to catch her bus home, which films would she be able to watch?
	<b>Forever Friends, Ghost House and Super Sonic.</b>
3.	If Megan arrived at the cinema at 12:40 to watch a film and needed to leave at 15:35 to catch her bus home, which films would she be able to watch?
	<b>Clowning Around, Ghost House and Dance School.</b>
4.	Twinkl Cinema is also showing a sports film called Thrill Seekers. The film lasts for 94 minutes. The first showing is at 09:15 and the cinema closes at 23:00. Including the 15 minutes of cleaning time at the end of each showing, create the timetable for this film.
	09:15 <b>11:04</b> <b>12:53</b> <b>14:42</b> <b>16:31</b> <b>18:20</b> <b>20:09</b>

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		

Statistics | Cinema Timetables

<b>I can complete, read and interpret information presented in a cinema timetable.</b>		
I can read and interpret a cinema timetable written using 24-hour time.		
I can calculate how much time has passed in hours and minutes.		
I can answer questions about the information shown in a cinema timetable.		