Statistics: Cinema Timetables

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

	Film Time Clocks: 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.								
	Going to the Cinema: Use the timetable shown on the Lesson Presentation to discuss the features of a cinema timetable. Point out what each heading and row shows.								
Whole Class	Cinema Timetable Questions: 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.								
	Cinema Timetables: 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.								
	Complete, read and interpret a cinema timetable. Answer questions that involve calculating simple durations of films.								
	Question Time: The children use the cinema timetable shown on the questions for a friend to answer.								
Whole Class	Film Treats: 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.								
	Children practise converting the times given on 12-hour bus timetables into 24-hour times. Use real-life examples of local cinema timetables to write and answer questions about time.								



Statistics

Maths | Year 5 | Statistics | Timetables | Lesson 3 of 5: Cinema Timetables



Aim

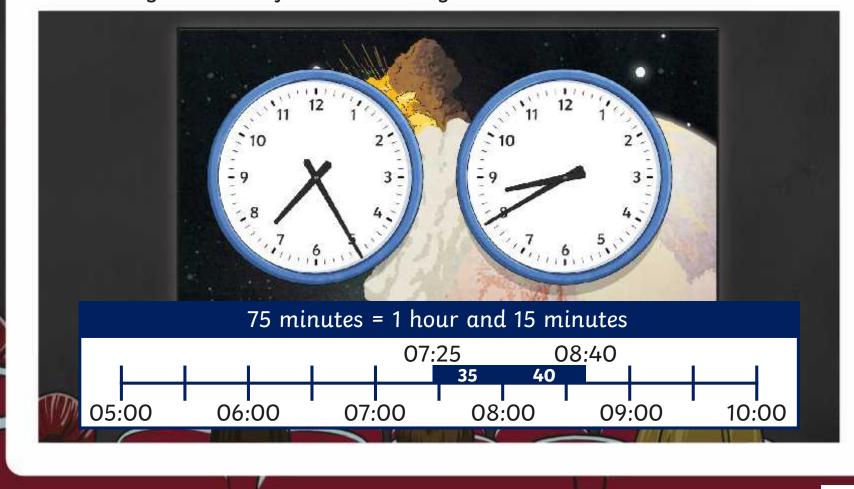
• I can complete, read and interpret information presented in a cinema timetable.

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.

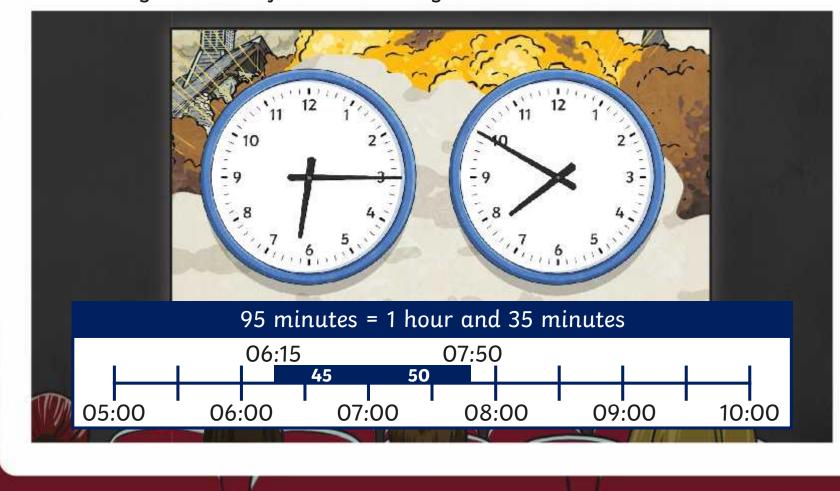


The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



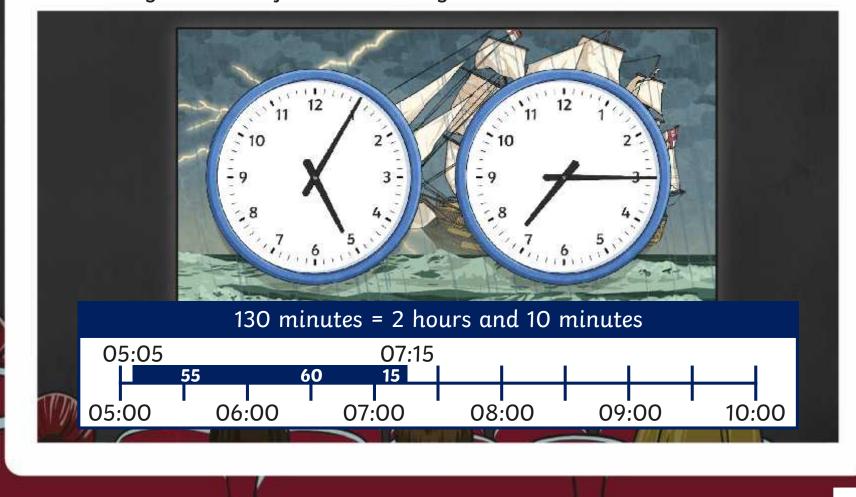


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The start and finish times of films are shown on these analogue clocks. How long does each film last? Give your answers in hours and minutes.



Going to the Cinema

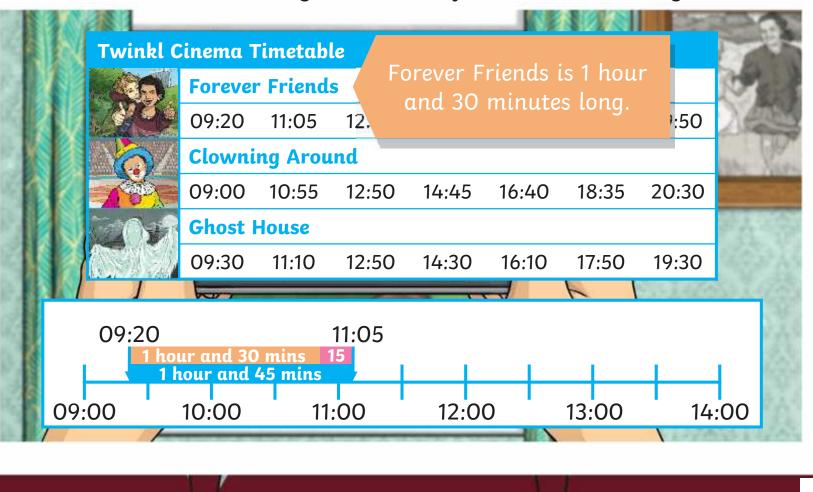
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	10/	Clowni	ng Arou	nd					
	A CON	09:00	10:55	12:50	14:45	16:40	18:35	20:30	
X_{-}	TEL OFF	Ghost H	louse						T
		09:30	11:10	12:50	14:30	16:10	17:50	19:30	
	a)	Super S	Sonic						J
		09:10	11:15	13:2	0 1	5:25	17:30	19:35)
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Cinema Timetable Questions



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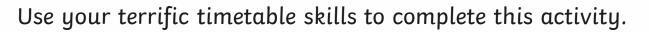


Cinema Timetable Questions

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

Twinkl C	inema T	imetabl	le					
	Forever	Friend	1					Inde
	09:20	11:05	12:50	14:35	16:20	18:05	19:50	
	Clowni	າg Arou	nd X					A 90
	09:00	10:55	12:50	14:45	16:40	18:35	20:30	
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	09:30	11:10	12:50	14:30	16:10	17:50	19:30	6
	Super S	onicX	9					
	09:10	11:15	13:2	0 15	5:25	17:30	19:35	
	Dance S	School	K					A STO
	09:15	11:15	13:4	•5 16	:00	18:15	20:30	200
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Cinema Timetables



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Question Time

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

Twinkl	Cinema 1	Timetabl	e					
	Foreve	r Friends	;					
	09:20	11:05	12:50	14:35	16:20	18:05	19:50	
10/	Clowni	ng Arou	nd					
A CON	09:00	10:55	12:50	14:45	16:40	18:35	20:30	
COM.	Ghost I	House						ļ
	09:30	11:10	12:50	14:30	16:10	17:50	19:30	
Sel.	Super S	Sonic						
	09:10	11:15	13:20) 15	5:25	17:30	19:35	
	Dance	School						
Por the	09:15	11:30	13:4	5 16	5:00	18:15	20:30	
	Thrill S	Seekers (3D)					
R VS	10:50	12:30	14:10) 15	5:50	17:30	19:10	

Film Treats



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

Snack	Price	3377
Medium popcorn	£4.60	
Large popcorn	£5.10	the second
Bag of sweets	£2.75	1
Hot dog	£4.75	A small soft drin
Ice cream	£4.10	and a hot dog wo
Small soft drink	£1.90	cost less money
edium soft drink	£2.25	
Large soft drink	£2.85	
Frozen drink	£6.25	

Aim

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

Success Criteria

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Aim: I can complete, read and interpret information presented in a cinema timetable.					Date:					
				Delivered By:			Support:			
Success Criteria	Me	Friend	Teacher	т	РРА	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										
J										
J										

т	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
S	Supply	GP	Guided Practice

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				Deliv	ered By:		Supp				
Success Criteria	Me	Friend	Teacher	т	ΡΡΑ	S	I	AL	GP		
I can read and interpret a cinema timetable written using 24-hour time.				Notes	s/Eviden	ce					
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	1										
J											
J											

т	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
s	Supply	GP	Guided Practice

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

Twinkl Cin	ema Timetable	2									
	Forever Friend	Forever Friends									
1906	09:20	11:05	12:50	14:35	16:20	18:05	19:50				
	Clowning Arc	ound									
	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										
E	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				

 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?

Cinema Timetables

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.

Thr	ill Seekers (3D)			
09	9:00			

Cinema Timetables **Answers**

Question				Ans	wer				
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 Fr	Forever Friends: 90 minutes							
	Clowning	Around: 100	minutes						
	Ghost Hou	ıse: 85 minu	tes						
	Super Son	Super Sonic: <i>110 minutes</i>							
	Dance Sch	1001: 120 min	outes						
2.		rived at the cir would she be		•	m and needed.	to leave at 13	:00 to catch h	er bus home,	
	Forever Fri	ends and Gh	ost House.						
3.		rived at the ci h films would			film and neede	ed to leave at	15:00 to catcl	h her bus	
	Forever Fri	ends, Clowni	ing Around a	nd Ghost Ho	use.				
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	

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

Twinkl Cinema Timetable								
	Forever Friends							
1906	09:20	11:10	13:00	14:50	16:40	18:30	20:20	
	Clowning Aro	ound						
	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 Seel	ters (3D)			
09:10				



Cinema Timetables **Answers**

Question				Ans	wer				
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 Fr	Forever Friends: 95 minutes							
	Clowning	Around: 105	minutes						
	Ghost Hou	lse: 80 minu	tes						
	Super Son	Super Sonic: IIS minutes							
	Dance School: 110 minutes								
2.		rived at the cir would she be		-	m and needed.	to leave at 14	:00 to catch h	er bus home,	
	Forever Fri	ends, Super S	Sonic and Do	nce School.					
3.		rived at the ci h films would			film and neede	ed to leave at	15:35 to catcl	h her bus	
	Forever Frid	ends, Clowni	ing Around a	nd Dance Sc	hool.				
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	



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

Twinkl Cinema Timetable							
	Forever Frien	ds					
1000	09:20	11:27	13:34		15:41	17:48	19:55
	Clowning Arc	ound					
	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						
REAL	09:10	11:23	13:36		15:49	18:02	20:15
	Dance School	l					
	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?



Cinema Timetables

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 Seeke	ers (3D)			
09:15				



Cinema Timetables **Answers**

Question				Answer				
1.		•		aff are given 15 ow long each film			•	
	Forever Friends: 112 minutes							
	Clowning A	round: 98 mii	nutes					
	Ghost Hous	e: 92 minutes						
	Super Sonic	Super Sonic: 118 minutes						
	Dance School: 104 minutes							
2.		ved at the cinemo vould she be able		atch a film and n	leeded to leave a	t 14:00 to catch	ı her bus home,	
	Forever Frien	nds, Ghost Hou	se and Super S	sonic.				
3.		ved at the cinem films would she		/atch a film and h?	needed to leave	e at 15:35 to ca	tch her bus	
	Clowning Arc	ound, Ghost Ho	ouse and Danc	e School.				
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	11:04	12:53	14:42	16:31	18:20	20:09	

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