



The Circus is Coming to Town!

You are the Ringmaster from the
Moonlight Circus

You are planning a national tour of all the major cities across the United Kingdom.

1. The circus will visit 2 cities per month, what is the maximum number of cities they can visit in a year?

A message arrives about the performers' holidays. Read the email below:

to:	ringmaster@moonlightcircus.com
bc:	
cc:	all.performers@moonlightcircus.com

Hi Ringmaster,
Just to let you know the performers have asked for the following holidays during the year of the national tour:

Easter: 2 weeks leave
Christmas: 2 weeks leave
Holiday: 1 week leave

2. How many weeks do you have left to perform the circus this year?



Using the calendar below, plan the first 3 months of the tour. It takes 3 days to set up the tents, the circus runs for 1 week in each city. You will need 2 days to pack the

equipment away again and then 1 day to travel between cities.

3. How could you plan six cities of the tour? Leeds has been done for you.

Leeds ✓	Manchester
Belfast	Cardiff
Aberdeen	Bristol

	M	T	W	T	F	Sa	Su
July	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	1	2	3	4

	M	T	W	T	F	Sa	Su
August	29	30	31	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	1

	M	T	W	T	F	Sa	Su
September	26	27	28	29	30	31	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29

The tickets for the following six cities need preparing for the printers.

4. The dates need to be added to each of these tickets for the final performance.

Glasgow: Arrive 20th September



Newcastle: Arrive 3rd October



Cardiff: Arrive 11th November



Portsmouth: Arrive 8th December



Edinburgh: Arrive 14th January



London: Arrive 23rd February



One of your acrobats has an injury and will need an operation on 25th April, she'll be on rest and recovery for 15 days after the operation.

5. What date will she return to work?



To create a magical atmosphere, the Moonlight Circus begins 60 minutes after sunset. Local councils have said you need to finish your performances by midnight.

6. Why will summer be a challenge?

The sunset times for some of the cities you will visit are in the table below.

7. Calculate how long your show can be on each evening.

City	Sunset	Show begins	Maximum Show Duration
Leeds	21:15		
Edinburgh	17:35		
Aberdeen	20:45		
London	15:15		

The stars of the circus need to know when their part of the show begins. Each dressing room has a different type of clock.

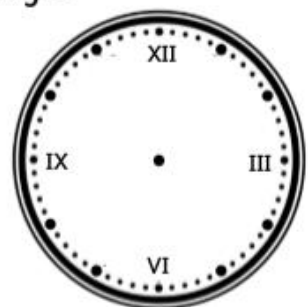
8. Set the clocks to show what time the performers are due on stage.



half past 7



17 minutes to 6



24 minutes past 10



18 minutes past 8
(hint use 24 hour clock)



It's time for the dress rehearsal!

Half way through, the clowns (who are in the dressing room that has the 24 hour clock) want to know how long until they are on stage. You check your watch....

9. How long is it until they are due on stage?



Suddenly, an elephant runs past and knocks you over. Oh no! Dust your self down and take a glance at your watch.

AAAARRRGH!
The screen is smashed.

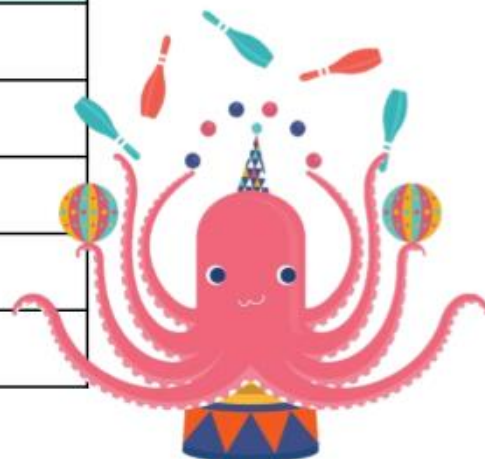
10. What time could it be?
Explain how you know.



You are expecting deliveries at the Big Top head office and you need to know when to expect them.

11. Tick the correct column to show whether the time is a.m. or p.m.

Items Ordered	Delivery time	a.m.	p.m.
balloons	09:35		
feathers	11:57		
sawdust	20:34		
rubber chicken	06:59		
Candy floss	21:45		



The performers are trying to perfect some new tricks. As Ringmaster, you are in charge of keeping the show running on time.

12. Calculate the duration of each act.

Act	Start time	End time	Duration
Balancing Bikes	10:33	10:55	
Aerial Gymnastics	11:15	12:27	
Dance Tricks	13:45	14:23	
Contortionists	14:30	15:41	



Which act is the longest? Which is the shortest?

The venues are asking for arrival times of the circus.

13. Use the set off time and journey duration to calculate when you will arrive in each city.



Leaving

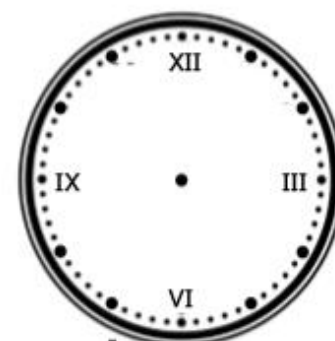
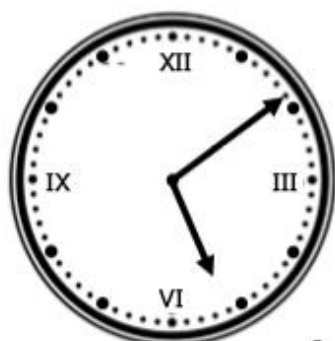


Edinburgh
4 hours 32 mins

Arriving



Carlisle
2 hours 14 mins




Some venues are working in digital clocks, watch out for the 24 hour clock:




There are many acts that are daring in the circus. To boost ticket sales, the Moonlight Circus are planning to advertise their record breaking acts of wonder!

You have decided to make some world record attempts, the results of which are below. Have you made it into the world record books?

14. Tick the box to show which are a successful world record attempt. The acts need to record a longer time than the current record.



Activity	Current record	Moonlit attempt	Record? ✓ or X
Longest Cannon Flight	$\frac{1}{4}$ hour	Begun 12:12 pm	
		Ended 12:30 pm	
Acrobat Upside Down	12 hours	Begun 2:00 am	
		Ended 7:00 pm	
Ball Balance	$\frac{1}{2}$ hour	Begun 8:53 am	
		Ended 9:21 am	



The posters are up, the planning is done, now it's time to get this show on the road!
Happy Travels!!

