

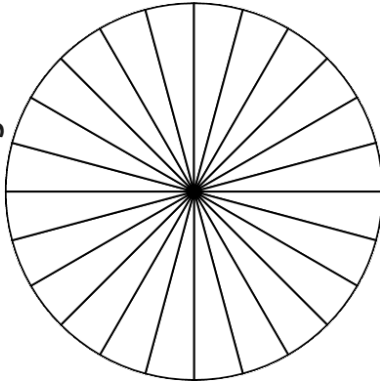
★ Comparing Daylight Hours in Antarctica

Shade each pie chart to show the average number of hours per day of daylight, twilight and darkness in each month. Then write a sentence for each month, describing what each place would be like at 1pm.

Daylight, Twilight and Darkness Hours in Antarctica

	January	April	July	October
Daylight	21	3	0	20
Twilight	3	13	4	4
Darkness	0	8	20	0

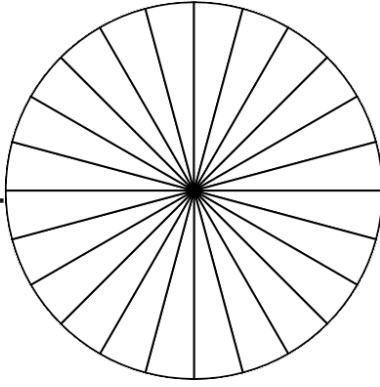
January



At 1pm in the UK, it would be...

At 1pm in Antarctica, it would be...

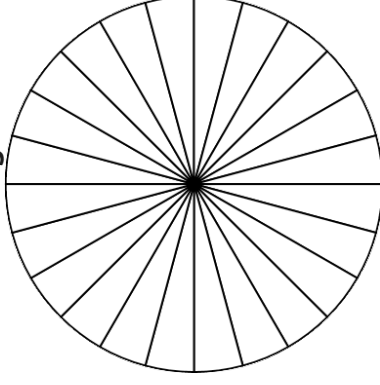
April



At 1pm in the UK, it would be...

At 1pm in Antarctica, it would be...

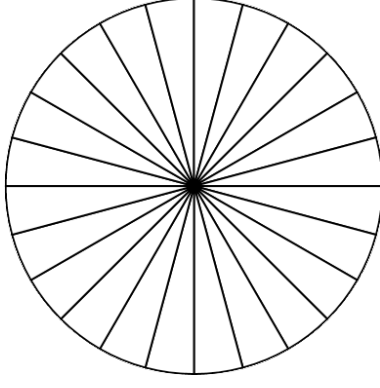
July



At 1pm in the UK, it would be...

At 1pm in Antarctica, it would be...

October



At 1pm in the UK, it would be...

At 1pm in Antarctica, it would be...



Comparing Daylight Hours

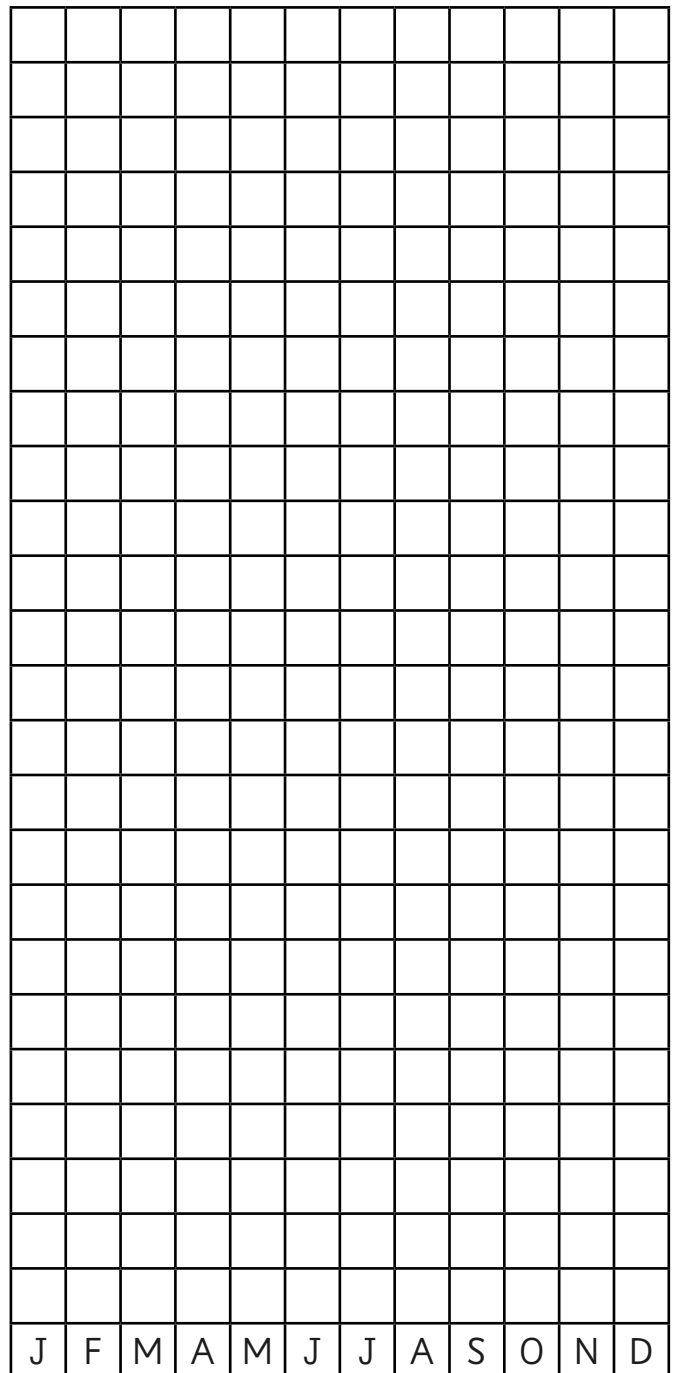
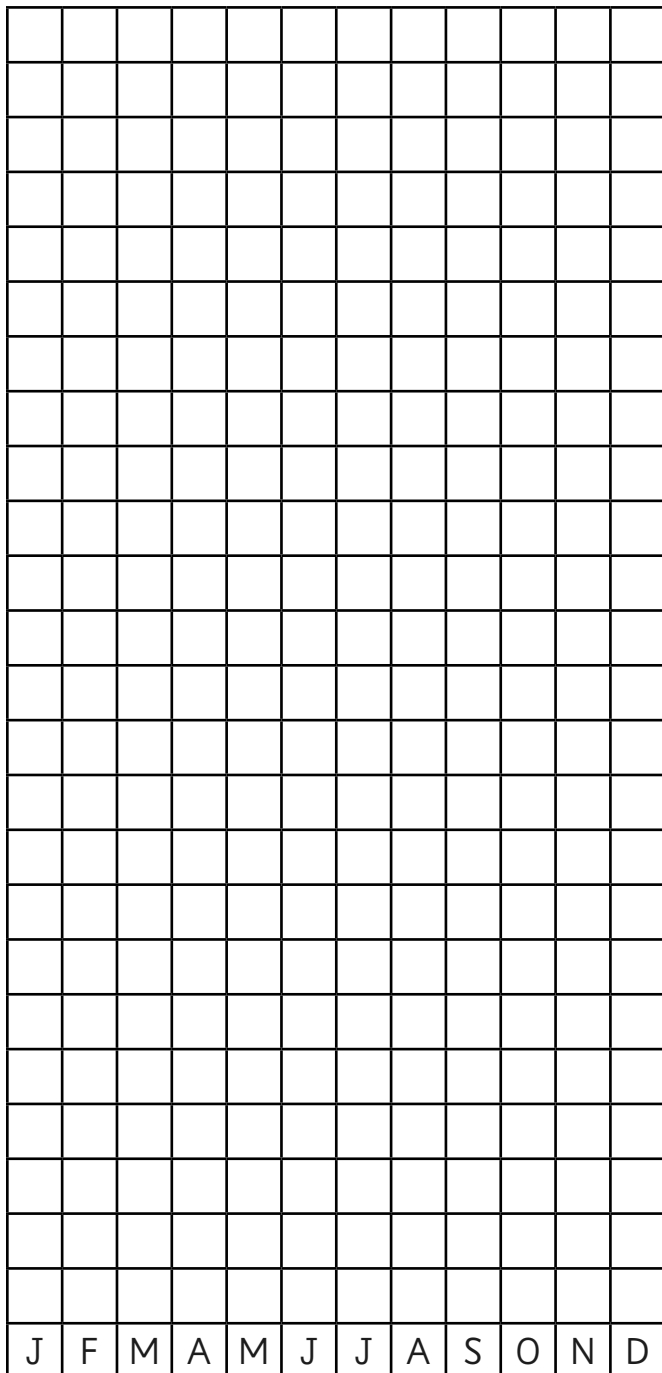


Shade the daylight hours for each month in yellow. Shade the remaining blocks in dark blue.

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
London	8	10	12	14	15	16	16	14	12	10	9	8
Arctic Circle	2	7	12	16	21	24	23	17	13	9	4	0

Daylight Hours in London

Daylight Hours in the Arctic Circle





Comparing Daylight Hours

What do your graphs tell you about daylight hours in the Arctic Circle?

What impact do you think this has on the lifestyles of those living in the Arctic Circle?

This table shows the monthly average daylight hours for Antarctica.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Antarctica	24	21	10	5	2	0	3	6	9	18	20	24

What do you think a graph showing the daylight in the Antarctic Circle might look like?



Comparing Daylight Hours



Shade the daylight hours for each month in yellow. Shade the remaining blocks in dark blue.

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
London	8	10	12	14	15	16	16	14	12	10	9	8
Arctic Circle	2	7	12	16	21	24	23	17	13	9	4	0
Antarctica	24	21	10	5	2	0	3	6	9	18	20	24

Daylight Hours in London

Daylight Hours in the Arctic Circle

Daylight Hours in Antarctica

J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D



Comparing Daylight Hours

What impact do you think that changes in daylight hours have on people living in polar regions and their lifestyles?

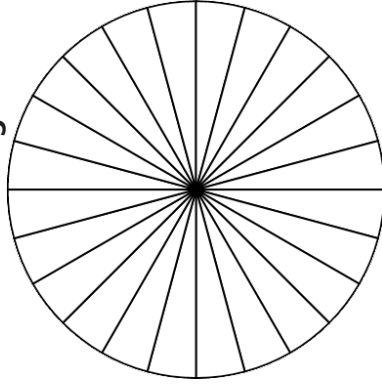
Comparing Daylight Hours in Antarctica Answers

Shade each pie chart to show the average number of hours per day of daylight, twilight and darkness in each month. Then write a sentence for each month, describing what each place would be like at 1pm.

Daylight, Twilight and Darkness Hours in Antarctica

	January	April	July	October
Daylight	21	3	0	20
Twilight	3	13	4	4
Darkness	0	8	20	0

January

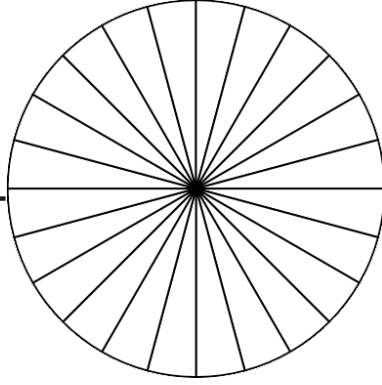


21 portions should show daylight and 3 twilight.

At 1pm in the UK, it would be...
daylight.

At 1pm in Antarctica, it would be...
daylight.

April

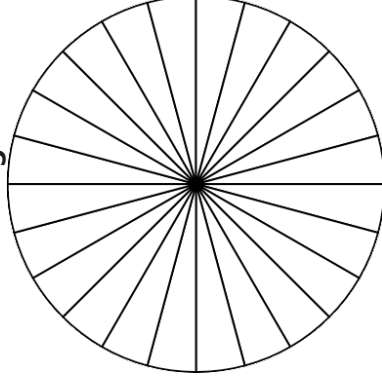


3 portions should show daylight, 13 twilight and 8 darkness.

At 1pm in the UK, it would be...
daylight.

At 1pm in Antarctica, it would be...
twilight.

July

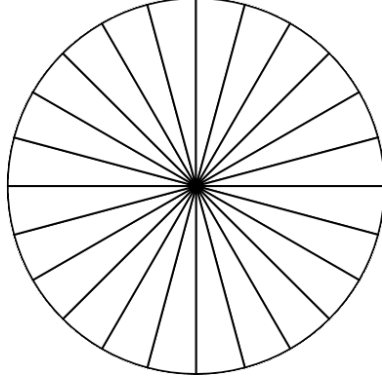


4 portions should show twilight and 20 darkness.

At 1pm in the UK, it would be...
daylight.

At 1pm in Antarctica, it would be...
in darkness.

October



20 portions should show daylight and 4 twilight.

At 1pm in the UK, it would be...
daylight.

At 1pm in Antarctica, it would be...
daylight.

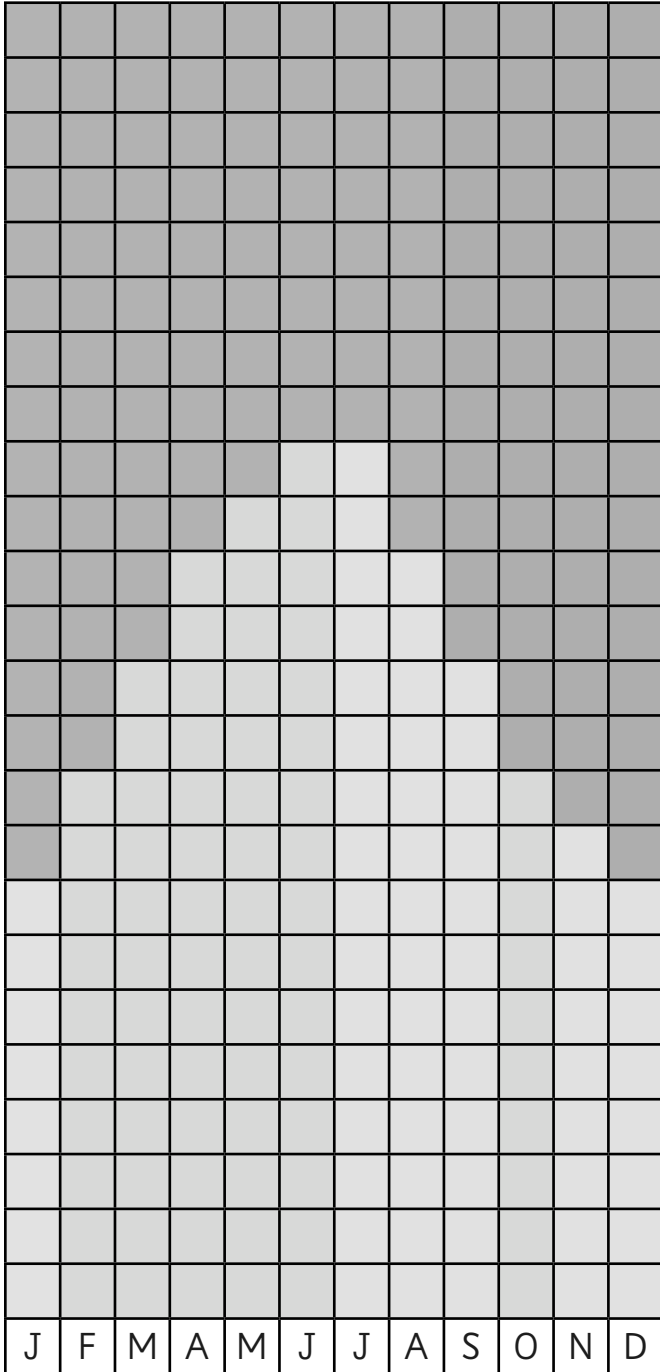


Comparing Daylight Hours **Answers**

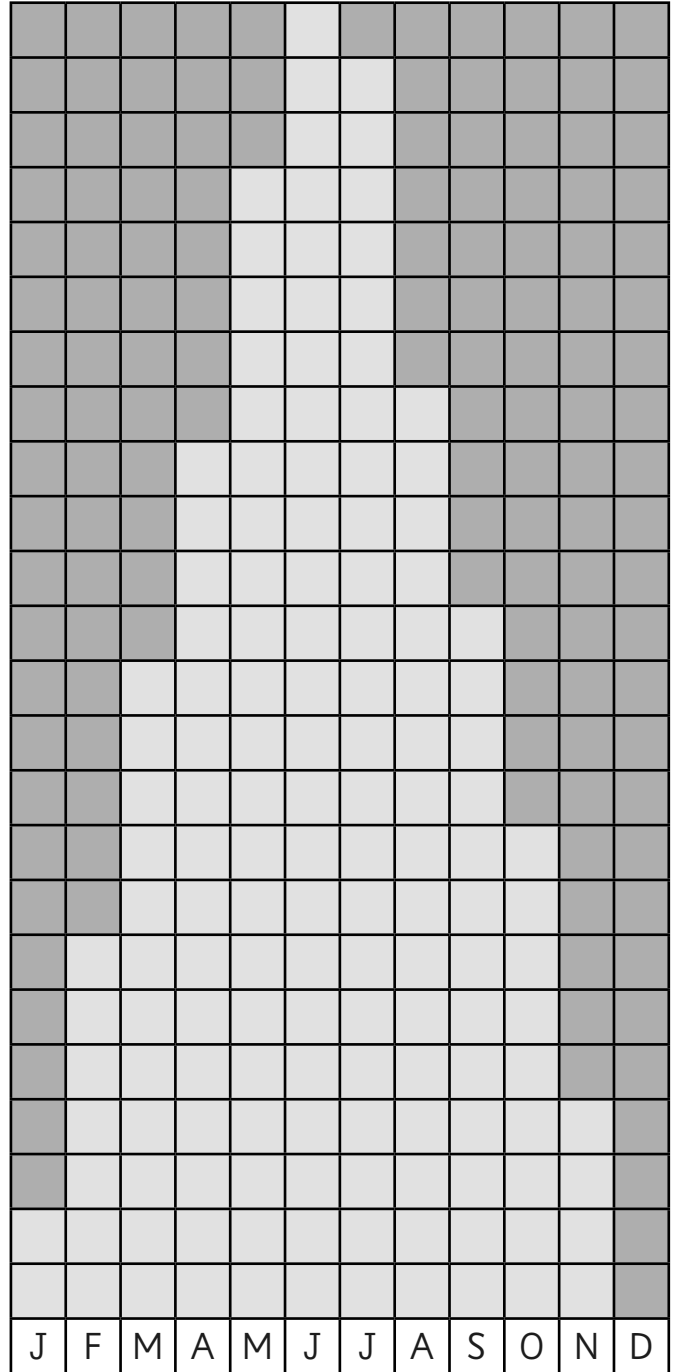
Shade the daylight hours for each month in yellow. Shade the remaining blocks in dark blue.

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
London	8	10	12	14	15	16	16	14	12	10	9	8
Arctic Circle	2	7	12	16	21	24	23	17	13	9	4	0

Daylight Hours in London



Daylight Hours in the Arctic Circle



Comparing Daylight Hours Answers

What do your graphs tell you about daylight hours in the Arctic Circle?

The graph shows that during the spring and summer months, there are many more hours of daylight in the Arctic Circle than in the winter months and more hours of daylight than in London between April and August. In June the sun doesn't go down and there are 24 hours of daylight. In winter, the hours of daylight are extremely short and in December, there are 0 hours of daylight.

What impact do you think this has on the lifestyles of those living in the Arctic Circle?

Children's own responses could include it being difficult to sleep in the summer months and hard to do daytime activities and work during the dark winter months.

This table shows the monthly average daylight hours for Antarctica.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Antarctica	24	21	10	5	2	0	3	6	9	18	20	24

What do you think a graph showing the daylight in the Antarctic Circle might look like?

Children's own responses could include any of these descriptions: 'it would look a bit like a V shape'; 'it would create the opposite shape to the graph from the Arctic Circle'; 'it would be fully shaded at the start and end of the year, dropping to 0 hours of daylight in the middle in June'.



Comparing Daylight Hours **Answers**

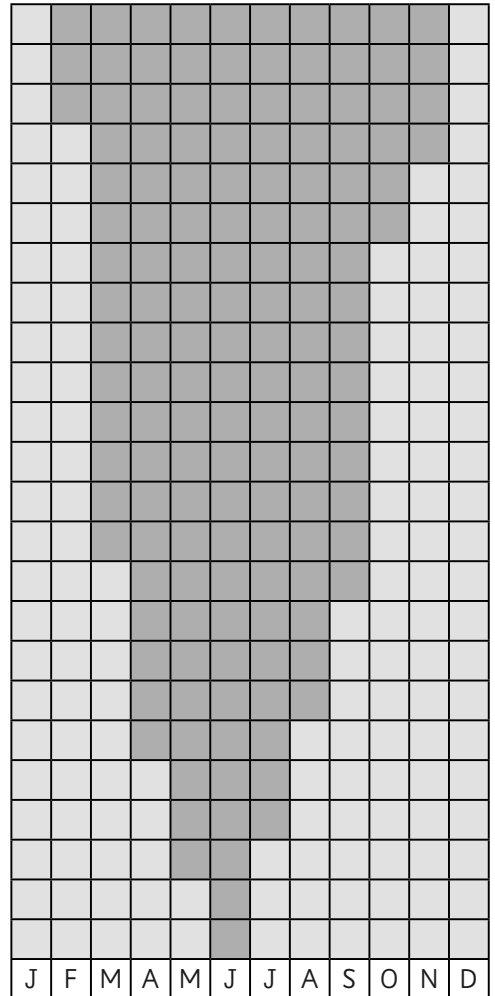
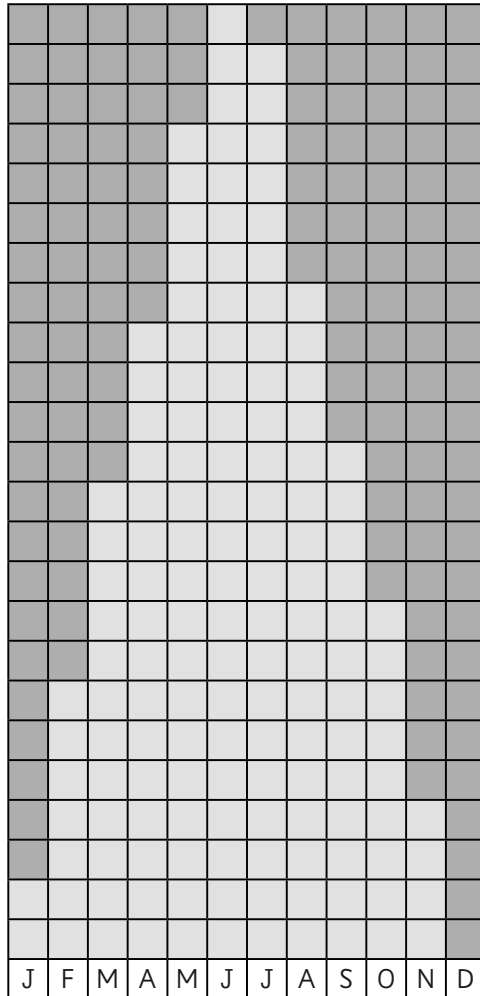
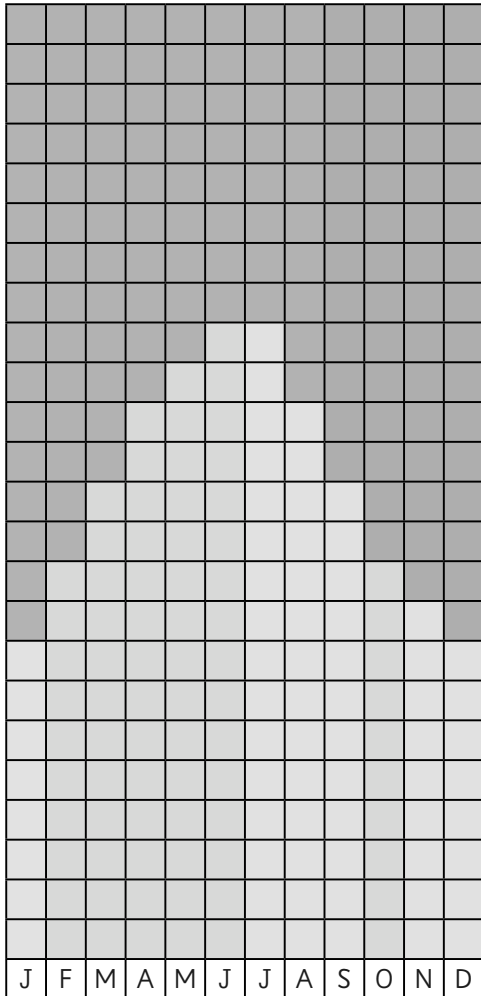
Shade the daylight hours for each month in yellow. Shade the remaining blocks in dark blue.

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
London	8	10	12	14	15	16	16	14	12	10	9	8
Arctic Circle	2	7	12	16	21	24	23	17	13	9	4	0
Antarctica	24	21	10	5	2	0	3	6	9	18	20	24

Daylight Hours in London

Daylight Hours in the Arctic Circle

Daylight Hours in Antarctica



What impact do you think that changes in daylight hours have on people living in polar regions and their lifestyles?

Children's own responses could include reference to the long hours of daylight making it hard to rest and sleep and, in contrast, the long days of little or no darkness making it hard to work and carry out daytime activities.