Name:		Date:
	A STATE OF THE PARTY OF THE PAR	D ALLO.

Keeping warm





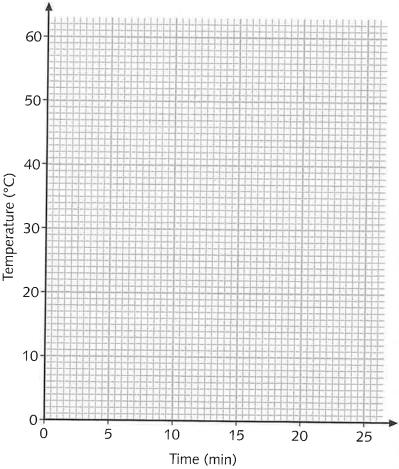
Some Year 5 children investigated which type of sleeping bag would keep you warmer – feather-filled or synthetic-filled. Every five minutes, they measured the temperature of a hot water bottle that they had placed inside each sleeping bag. The table shows their results.

You will need:

- ruler
- red pencil
- blue pencil

Time	Temperature (°C)		
(min)	Feather	Synthetic	
0	60	60	
5	55	52	
10	50	44	
15	46	38	
20	42	32	
25	37	27	

Temperature readings



1 Use the data in the table to complete the time graph. Draw the line for feather in red and draw the line for synthetic in blue.

2 Estimate the difference in temperature between the two hot water bottles at:

- **a** $12\frac{1}{2}$ min
- **b** $17\frac{1}{2}$ min
- c 22½ min

Which sleeping bag filling is the better choice?

Write a statement on the back of this sheet justifying your reasoning.