

Answers

1. Dom is conducting an experiment to see how quickly different objects react to heat. Afterwards, he groups them into three different groups.

Explore different ways he could have grouped them based on the timings that he found.

 2 minutes 55 seconds	 15 seconds	 56 seconds	 119 seconds	 1 minute 16 seconds
 138 seconds	 126 seconds	 21 seconds	 1 minute 8 seconds	

Various possible answers, for example:

Dom could have grouped them into a group that reacted in under 30 seconds, a group that reacted under a minute (but more than 30 seconds) and a group that took longer than a minute to react.

4a. A is false because 1 minute 15 seconds = 75 seconds which is < 80 seconds. B is false because 160 minutes = 2 hours 40 minutes which is > 2 hours 30 minutes. C is true.

5a.

Hours	Minutes
1 hour 40 minutes	100
quarter of an hour	15
2 hours 10 minutes	130
2 hours 50 minutes	170
3 hours 20 minutes	200

7a. 140 minutes

8a. All three children