1. A train that is 180m long passes a signal in 90 seconds. How long will it take to cross a bridge that is 360m long?

2. I want to build a diamond-shaped patio using 10cm x 10cm tiles. I want the width to be 101 tiles. How many tiles should I buy from Jerry’s?

3. Two thermometers are hanging next to each other as shown. So 0°C on the little one is level with 10°C on the big one, and 100°C on the little is level with 70°C on the big.

At what temperature will the mercury in the thermometers be at the same height?

4. How to boil an egg for 15 minutes using a 7-minute and an 11-minute hourglass. You are in a hurry so want to start the egg cooking when you start the first hourglass!