## 2 Use mathematics and statistics

• In these questions you will be told what to calculate.

## Example:

Rena wants to ring her friend in Perth, Australia. They are four hours behind New Zealand. If Rena rings them at 19:42 New Zealand time, what is the time in Perth?

	5.42 pm	3.42 am	3.42 pm	13:42
		19:42 is 7.42 pm in	12-hour time. Four hours (	earlier it is 3.42 pm.
Answer th	ne following qu	estions.		1
<b>1 a</b> Four tables with trapezium-shaped tops are arranged to make a square.				
			x 50 n	nm

	50 mm 675 mm			
	0			
	Calculate the size of angle x.			
	<b>b</b> Which calculation would give you the total shaded area?			
	$1750^{2} - 50^{2} \qquad 1750^{2} + 50^{2} \qquad 4 \times 1750 \times 675 \qquad 4 \times \frac{1750 \times 675}{2}$			
2	Fabian's monthly activity goal is to complete 155 000 steps. If the month is 31 days long, how many steps on average does he need to take each day?			

