

Lesson 2: Main challenge

Resource 2.2

The gates have opened at Torbury Festival! It promises to be a fun-packed four days!

You have set up a market stall not too far from Del and Cassy.

You want to make money from selling T-shirts, hats and Glow sticks.

You have packed your van full of goods that you hope to sell over the four days.

But have you brought the right goods to maximise your profit?

The back of your van is 330 cm long, 175 cm wide and 190 cm high.

- a What is the maximum profit you could make if you brought only one type of item?
- b What could your profit be if you brought at least two types of items?
Can you do better than the other market traders?

T-shirts are packed in boxes of 30.

The size of a box of T-shirts is:

length	60 cm
width	40 cm
height	40 cm

It costs £2 to make one T-shirt.
Its selling price is £5.



Hats are packed in boxes of 20.

A box of hats is:

length	40 cm
width	40 cm
height	40 cm

It costs £1.50 to make one hat.
Its selling price is £4.



Glow sticks are packed in boxes of 35.

The size of a box of glow sticks is:

length	15 cm
width	15 cm
height	15 cm

It costs 5p to make one glow stick.
The selling price is 4 for 50p.

