Name: Class: Mark:



1. A running vest is made of 80% cotton and 20% Lycra® by mass.

If the shirt has a mass of 200 g, what is the mass of Lycra® in the shirt? [2]

2. A craftsperson creates a table that is made from a combination of oak, steel and glass.   
The mass of steel is 21.5 kg.   
The mass of the steel is 60% of the total mass of the table.   
What is the total mass of the table? Give your answer to 2 decimal places. [2]

3. The price of stock printing paper has increased by 5%.

The previous price was £300 per m3. Work out the new increased price. [3]

4. Value added tax (VAT) is added as an extra tax to many products.   
VAT is worked out at 20% of the price before VAT is added.

(a) Printed circuit boards are purchased for £30 for a pack of 10, excluding VAT.

What is the price including VAT? [3]

(b) A CNC vinyl cutter is purchased by a designer for £3,500, including VAT.

What was its price excluding VAT, to the nearest penny? [2]

[Total marks 12]