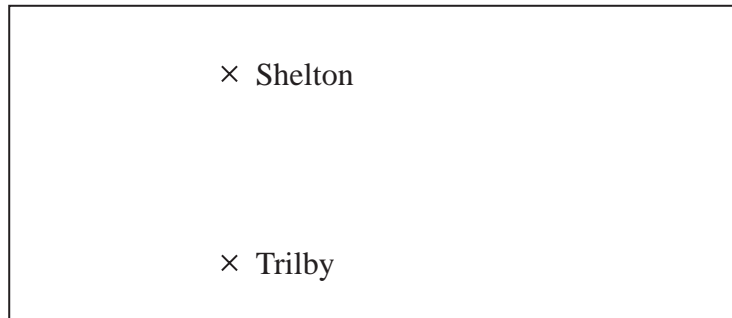


1 The diagram shows two places on a map.



Scale: 1 centimetre represents 20 kilometres

(a) What is the actual distance, in kilometres, from Shelton to Trilby?

..... kilometres  
(2)

On a scale drawing, the scale is given as 1 : 1200

(b) How many metres does 5 centimetres represent on this drawing?

..... metres  
(2)

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**(Total for Question 1 is 4 marks)**

2 Change  $1 \text{ m}^2$  into  $\text{cm}^2$

.....  $\text{cm}^2$

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**(Total for Question 2 is 1 mark)**

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3 On a scale drawing, a building has length 12.4cm and width 9.4 cm.  
The real length of the building is 62 metres.

Work out, in metres, the real width of the building.

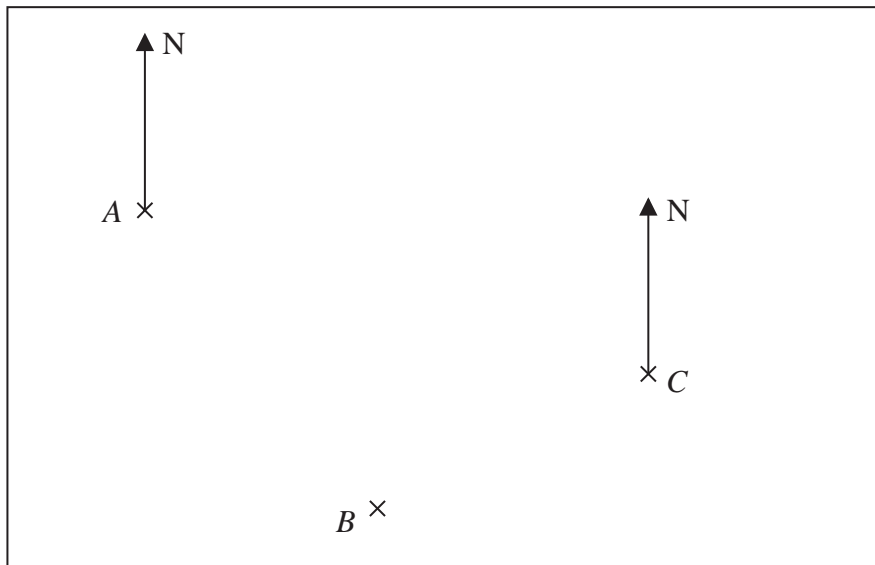
..... metres

---

**(Total for Question 3 is 3 marks)**

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4 The accurately drawn map shows the positions of three points, *A*, *B* and *C*, in a field.



Scale: 1 cm represents 150 metres

Parveen walks in a straight line from *A* to *B*.  
She then walks in a straight line from *B* to *C*.

Susan walks in a straight line from *A* to *C*.

Parveen walks more metres than Susan.

(a) How many more?

..... metres  
(3)

(b) Find by measurement the bearing of *A* from *C*.

.....  
(1)

**(Total for Question 4 is 4 marks)**

5 Aleksy is using a map.

The map has a scale of 1 : 25 000

On the map a road has a length of 6 cm.

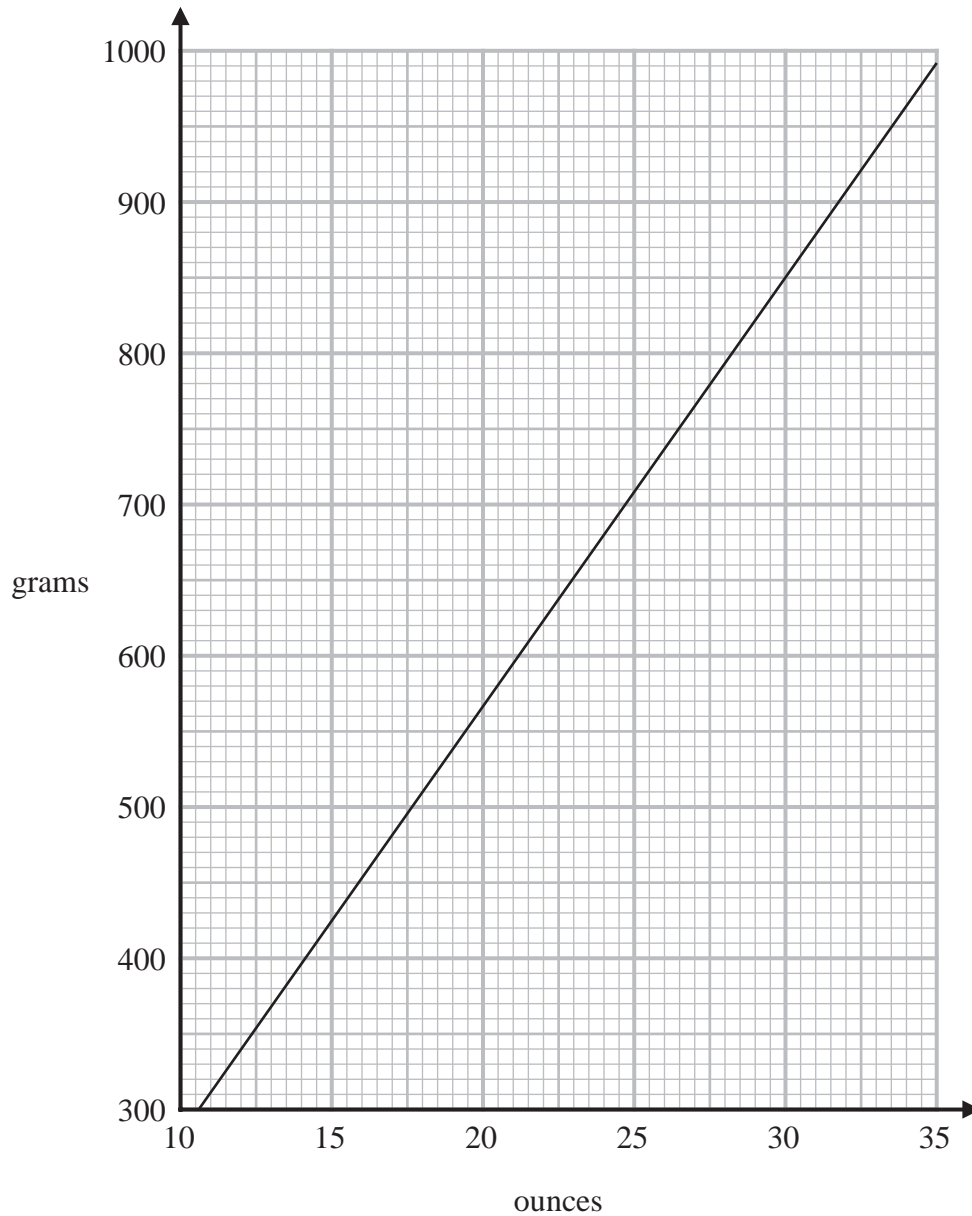
(b) Work out the length, in kilometres, of the real road.

..... kilometres  
(3)

---

**(Total for Question 5 is 3 marks)**

6 You can use this graph to change between ounces and grams.



(a) Change 850 grams to ounces.

..... ounces  
(1)

(b) Change 80 ounces to grams.

..... grams  
(2)

**(Total for Question 6 is 3 marks)**

7 Here is a list of ingredients for making 10 scones.

**Ingredients for 10 scones**

80 g butter  
350 g self-raising flour  
30 g sugar  
2 eggs

Martin has

100 g butter  
1 kg self-raising flour  
50 g sugar  
4 eggs

Martin wants to make 25 scones.

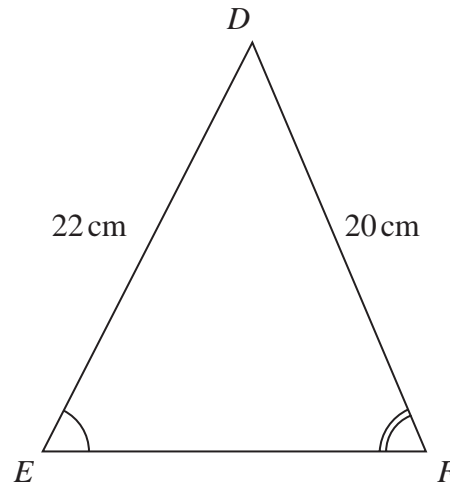
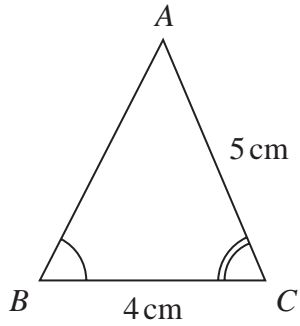
He has not got enough of some of the ingredients.

Work out how much more of each of these ingredients he needs.

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**(Total for Question 7 is 4 marks)**

8 Triangle  $ABC$  and triangle  $DEF$  are similar.



(a) Work out the length of  $EF$ .

..... cm  
(2)

(b) Work out the length of  $AB$ .

..... cm  
(2)

**(Total for Question 8 is 4 marks)**

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