

- 8 (a) Frank recorded the temperature, in degrees Celsius, each morning. These are his results for five days.

4 -3 2 -1 -5

Write these temperatures in order, lowest first.

.....[1]

- (b) As you climb a mountain it gets colder.

This formula is used to estimate by how many degrees Celsius the temperature goes down.

Divide the height climbed, in metres, by 200

Jack climbs 1600 m up a mountain.

The temperature at the start is 5 °C.

Complete this table.

Temperature at the start	Temperature goes down by	Temperature at the end
5 °C °C °C

[2]

3

- 9 Work out.

(a) $18.42 - 6.3 \times 2.4$

(a)[1]

(b) $(3.6 + 6.4) \div 2.5$

(b)[1]

2

- 10 (a) Trevor runs a bath.
He uses 50 gallons of water.

About how many litres is this?



(a)[2]

- (b) Which of the following is most likely to be the actual length of a bath?

17 cm 1700 m 170 cm 0.17 km 170 mm

(b)[1]

3

- 11 Six friends count the number of stamps they have collected.
These are their results.

63 63 75 87 92 112

Work out the mean of these numbers.

.....[3]

3

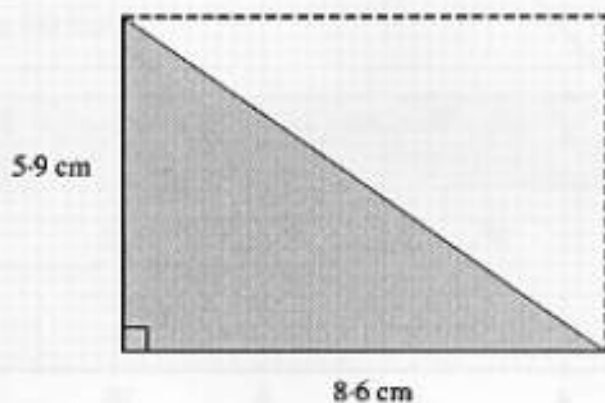
- 12 Mandy has 6 glasses.
Each glass holds 225 ml.
She fills the glasses from a 2 litre bottle of cola.

How much cola is left in the bottle?
Give your answer in millilitres.

.....ml[3]

3

- 13 Work out the shaded area.

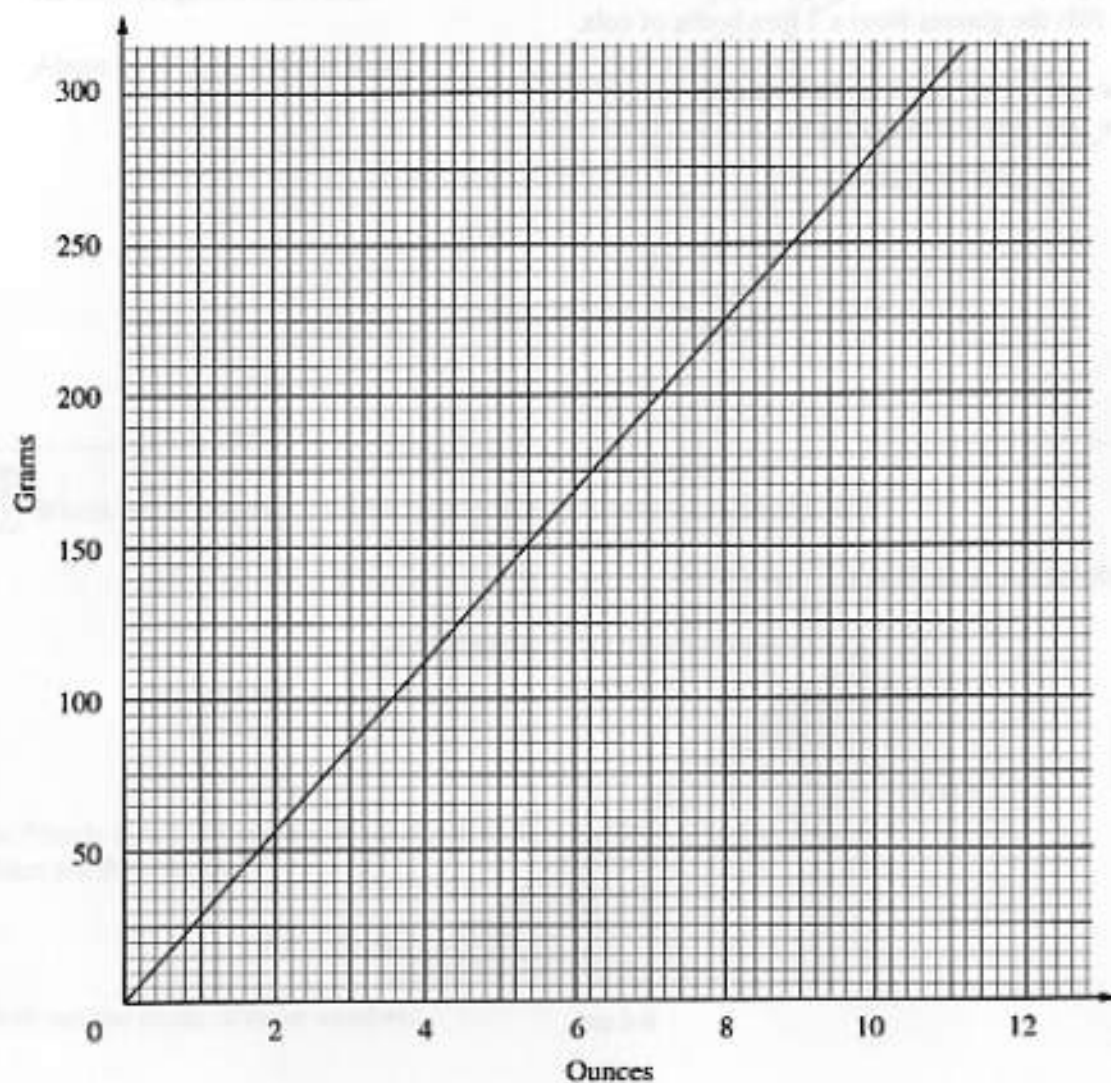


Not to scale

.....cm²[2]

2

14 This graph converts between ounces and grams.



(a) Use the graph to convert 5 ounces to grams.

(a)g[1]

(b) Use the graph to convert 85 grams to ounces.

(b)ounces[1]

(c) Use the graph to help you convert 600 grams to ounces.

(c)ounces[2]

4

- 15 Sandra plays 12 tennis matches a year.

Hillside Tennis Club uses this formula to work out the annual cost to members.

Multiply £2.50 by the number of matches played then add £55

Valley Tennis Club uses this formula.

$$C = 4 \times M + 45$$

C is the annual cost in pounds,

M is the number of matches played.

Which club is cheaper for Sandra and by how much?

Show your working.

	1	2	3	4	5
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TIME 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name, centre number and signature in the boxes below.
2. Answer all the questions.
3. Write your answers in the boxes or on the grid. If you need more space use the question paper if possible.
4. Read each question carefully and make sure you know what you have to do before starting your answer.
5. There is a penalty for most questions. Use a ruler to place your working in every question. There will be given for a correct method mark if the answer is incorrect.

APPROXIMATE TIME ALLOWED

1. This has been used to give a rough idea of the time allowed for each question.
2. The number of marks for each question is given in the margin.
3. The total number of marks for this question is 10.
4. Sandra is asked to work out the annual cost for Hillside Tennis Club.

Hillside Tennis Club annual cost £.....

Valley Tennis Club annual cost £.....

..... is cheaper by £..... [5]

5

FOR EXAMINER'S USE

Section 1