Mathematics 7 Core Assessed Homework (November)

Non-Calculator

Name:

Initial reflection:

Assessor:

Feedback:

Response:

1. *(a)* (i) Write down, in figures, the number fifty thousand, two hundred and forty four.

....

[1]

(ii) Write down, in words, the number 67 304.

....

[1]

(b) Using only the numbers in the following list,

              34   41   76   12   37   32   21

write down
(i) two numbers that add up to 46,

....

[1]

(ii) two numbers which differ by 39,

....

[1]

(iii) a multiple of 7.

....

[1]

(c) Write 7629
(i) correct to the nearest 100,

....

[1]

(ii) correct to the nearest 1000.

....

[1]

(d) Write down all the factors of 25.

....

....

[2]

(e) Michelle uses each of the digits 4, 7, 3 and 8 once to make a four-digit number.
(i) What is the largest number that she can make?

....

[1]

(ii) What is the smallest odd number that she can make?

....

[1]

2. *(a)* Write down the value of the 7 in the number 35 741.

....
[1]

(b) Subtract 156 from 384.

....

....

....

....

....
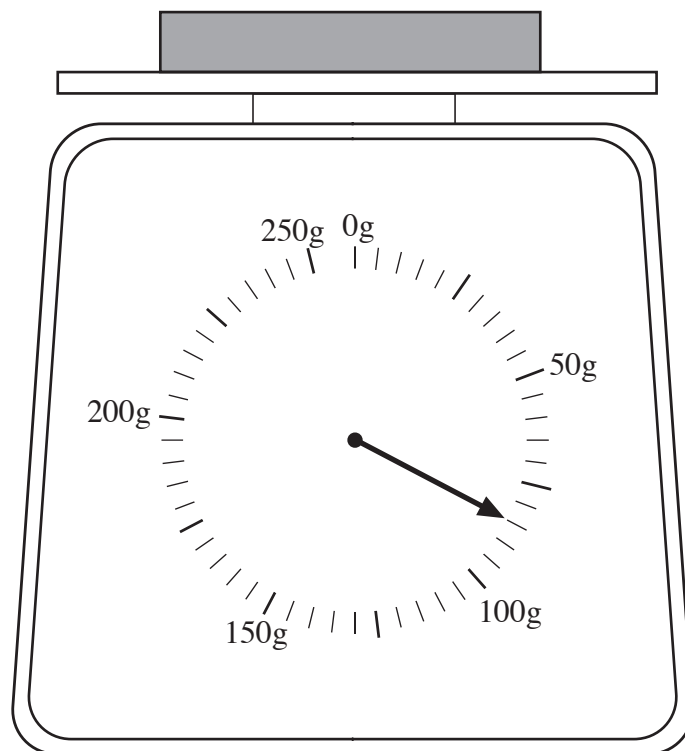[1]

(c) Kate has a £20 note.
A notebook costs £1.60.
She buys as many notebooks as she can.
How much money will she have left over?

....

....

....

....

....
[3]

(d) **Showing all your working**, find an **estimate** for the value of 51·8 × 10·2.

....

....

....
[2]

3. *(a)* (i) What weight is shown on the following diagram?

....

(ii)   An extra block is put on the scale. What is the weight of this extra block?

....

....
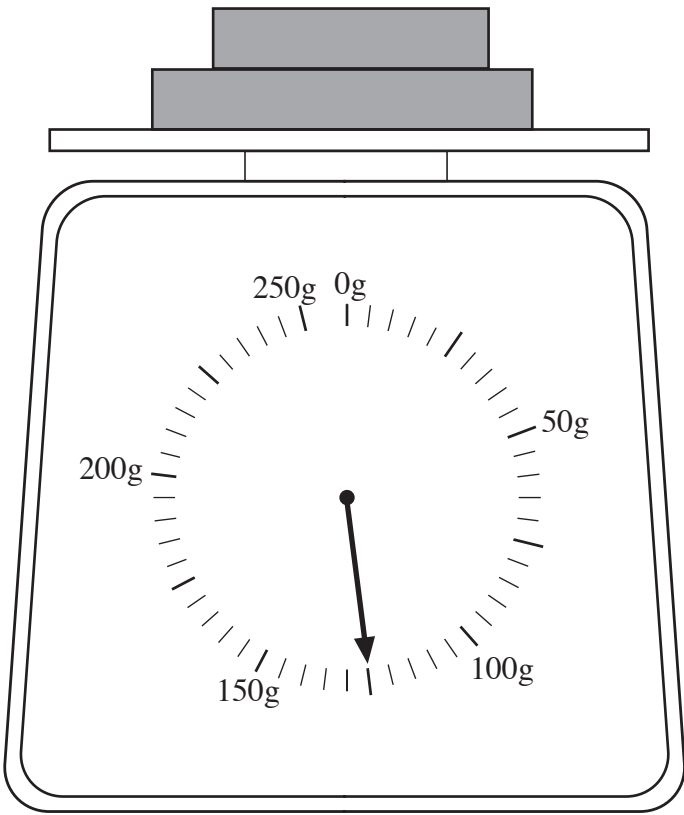
....
                                                                                                                          [3]

4.   Which **metric unit** is **best used** to measure

    (i)   the volume of water in a large swimming pool, ...

    (ii)   the area of a window, ...

    (iii)   the length of a football pitch, ...

    (iv)   the weight of a pencil?   ....
                                                                                                   [4]

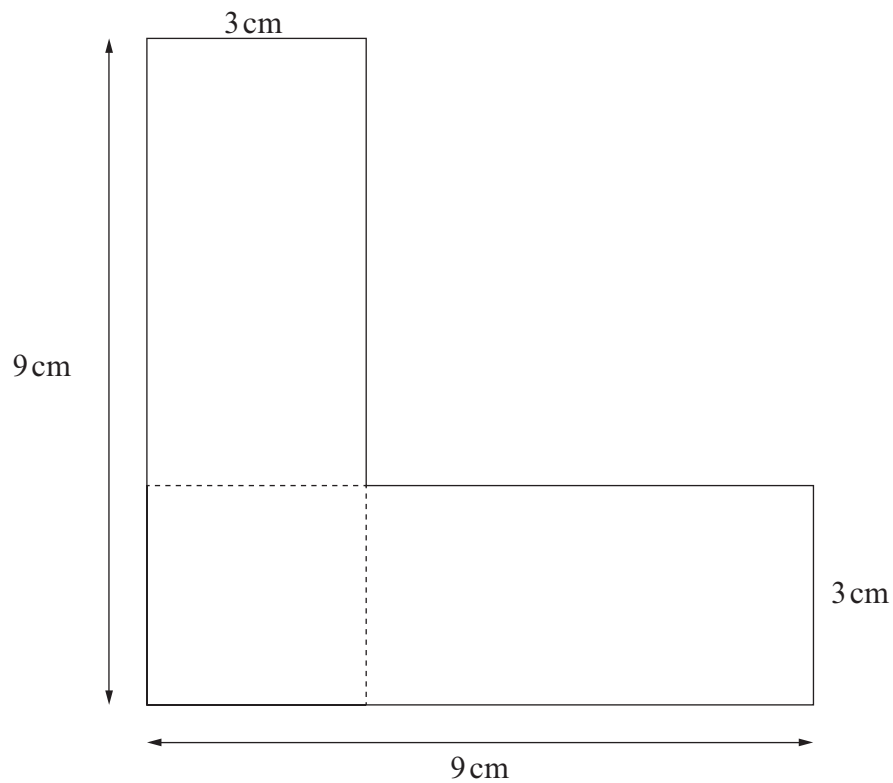**5.** Two overlapping rectangles, each 9 cm by 3 cm, are placed so as to make an L shape as shown in the diagram.

3 cm

9 cm

3 cm

9 cm

Diagram not drawn to scale

(a) Calculate the perimeter of the shape.

....

....

....

[3]

(b) Calculate the area of the shape.
Write down the units of your answer.

....

....

....

[3]

6. In a quiz, each contestant is asked 4 questions.
Contestants score 3 points for each correct answer, -2 points for each incorrect answer and 0 if they pass (do not offer an answer).

(a) What is the score of a contestant who answers the first 3 questions correctly and answers the fourth incorrectly?

....

....

[1]

(b) What is the score of a contestant who answers the first question correctly, passes on the second question and answers the last two incorrectly?

....

....

[1]

(c) Lesley did the quiz and answered the first question correctly. Her final score was -3. Explain fully how this happened.

....

....

[2]