Mathematics 7+ 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.

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[1]

(b) Subtract 156 from 384.

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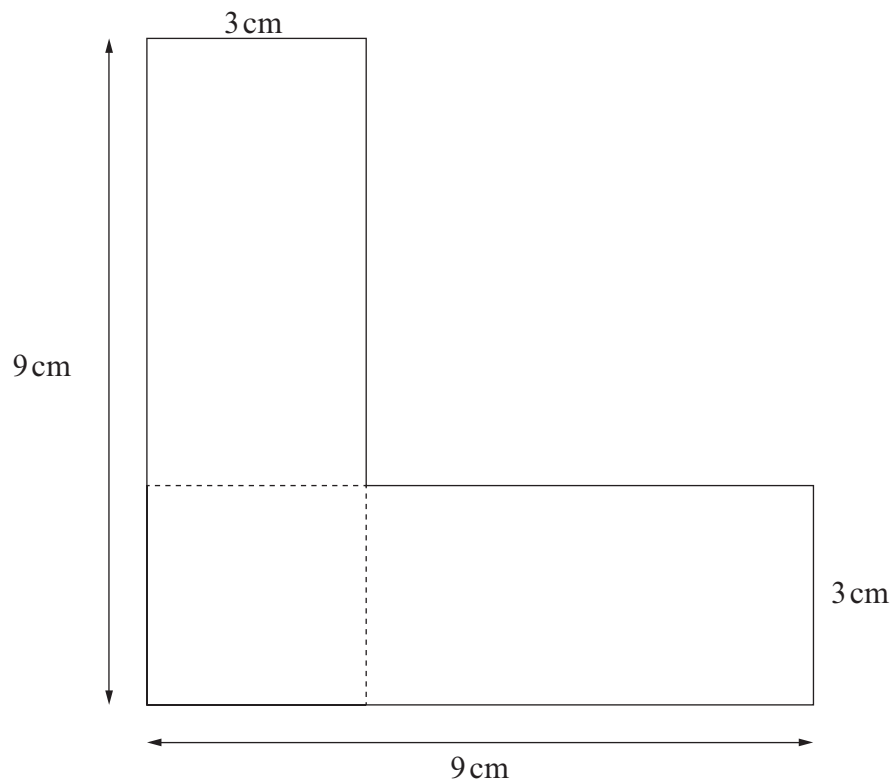[1]

(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?

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....

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[3]

(d) **Showing all your working**, find an **estimate** for the value of $51 \cdot 8 \times 10 \cdot 2$.

....

....

....
[2]

3. 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.

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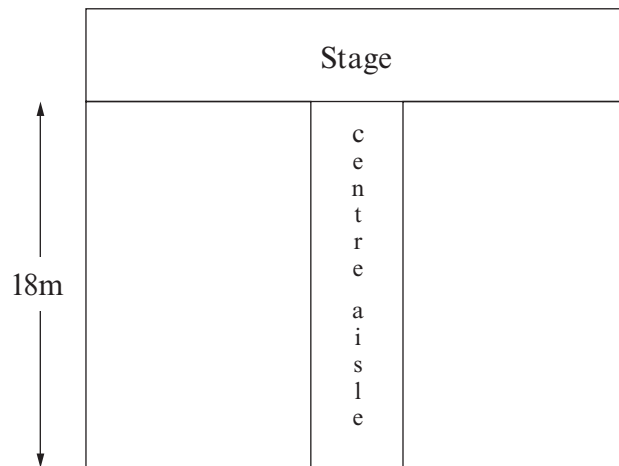
[3]

4. *You will be assessed on the quality of your written communication in this question.*

Year 10 pupils have been asked to arrange the seating for a concert in the school hall.
They work out that each row will have 12 seats on each side of the centre aisle.
Each row will take up 2 metres of the 18 metre length of the hall.
Showing all your working, decide whether or not there will be enough seats for 200 people.

	Stage	
	c e n t r e a i s l e	

18m

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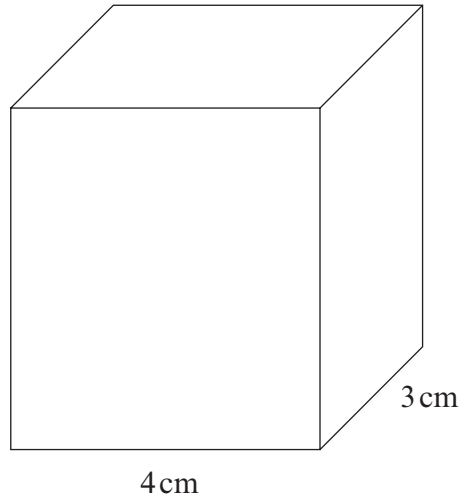
[6]

(c) Calculate the height of a cuboid of length 4 cm, width 3 cm and volume 84 cm^3.

3 cm

4 cm

Diagram not drawn to scale

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[2]

5. The following table shows four places and their height above sea level.

Place	Height above sea level (in metres)
Llyn Cowlyd, Wales	355
Chott Melrhir, Algeria	–40
Lake Eyre, Australia	–15
The Fens, England	–4

(a) Explain what it means to write the height of Lake Eyre above sea level as –15.

....

....

[1]

(b) Which place is the lowest of the four?

....

[1]

(c) How much higher than Chott Melrhir is Llyn Cowlyd?

....

[1]