1. Angus thinks of a number.

If he cubes his number and then adds 9 , he gets 17 .

What number is he thinking of?

## (b)

2. Mikolaj works out that $770 \div 22=35$.

Write a multiplication that will check his division is correct.

3. Complete the following.

(ii) $£ 0.67+$ $p=£ 1$
4. Maja and Charlie are playing a 'think of a number' game.

Maja says:

I think of a number.
I add 4.
I multiply the result by 6 .
The answer is 72.

Find the number that Maja thought of.
5. A number is multiplied by 8.

The answer is positive and less than 8.

Find a possible number and complete the calculation.
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Using this fact, write two different subtractions.
You can only use the numbers 5, 7 and 12 .

(b). Ana has some money.

She spends half of it buying a coat.
She gives half of what is left to her mum.
Ana now has $£ 20$

How much money did Ana have to start with?
7. Complete the following statements.


| Question |  | Answer/Indicative content | Marks | Part marks and guidance |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | 2 | 2 | M1 for 8 seen |  |
|  |  | Total | 2 |  |  |
| 2 |  | $\begin{aligned} & 22 \times 35=770 \\ & \text { or } 35 \times 22=770 \end{aligned}$ | 1 |  | Examiner's Comments <br> Almost all candidates were able to answer this question on using checking strategies correctly. Some less able candidates gave answers such as $5 \times 7=35$ which did not relate to the original values in the question. |
|  |  | Total | 1 |  |  |
| 3 | i | -4 | 1 |  | Examiner's Comments <br> This was very well answered. |
|  | ii | 33 | 1 |  | Condone $£ 0.33$ <br> Examiner's Comments <br> Quite a number of candidates gave the answer as $0.33 p$ instead of $33 p$ and overlooked the units given in the problem. |
|  |  | Total | 2 |  |  |
| 4 |  | 8 | 2 | M1 for 12 or for evidence of $\div 6$ then -4 <br> Examiner's Comments <br> There were many correct answers. |  |
|  |  | Total | 2 |  |  |
| 5 |  | multiply by $n$, where $0<n<$ 1 | 1 |  |  |


| Question |  | Answer/Indicative content | Marks | Part marks and guidance |
| :--- | :--- | :--- | :--- | :--- | :--- |
| (their $n \times 8$ evaluated | 1FT | For FT must have $-1<n<$ <br> 1 and $n \neq 0$ <br> Examiner's Comments |  |  |



