

| Question | | Answer | Mark | Mark scheme | Additional guidance |
|----------|-----|--------|------|--|---|
| 9 | (a) | 16 | B1 | cao | |
| | (b) | 19 | M1 | starts method to find input using inverse operations eg $28 + 10 (=38)$ or sight of $+10$ and $\div 2$ | |
| | | | A1 | cao | +10 and $\div 2$ could be seen in a flow diagram Working may be next to number machine. |
| | (c) | Shown | M1 | for carrying out at least one trial or for forming a suitable equation, eg $2x - 10 = x$ or for identifying 10 | Trial can be for any value, must be correctly evaluated. Accept correct inverse function trial, correctly evaluated. If working seen on the number machine provided in the question allow for a trial other than input 13 or output 28. |
| | | | C1 | for showing that an input of 10 gives an output of 10 | Allow $10 \times 2 = 20 - 10 = 10$ for M1C1 |