## Topic Test 1 Mark Scheme

## Constructions and loci - Foundation

| Q Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |


| $\mathbf{1 ( a )}$ | 7 | B1 |  |
| :--- | :--- | :---: | :--- |
| $\mathbf{1 ( b )}$ | 50 | B1 |  |
| $\mathbf{1 ( c )}$ | $[53,55]$ | B1 |  |


| 2(a) | Intersecting arcs from both $A$ and $B$ <br> of length 9 cm , with intersection <br> joined to both $A$ and $B$ | B1 |  |
| :---: | :--- | :---: | :---: |
| 2(b) | $[7.75,7.85]$ | B1 |  |


| 3 | Three circles centred on $C$ with radii <br> $[2.9,3.1],[3.9,4.1]$ and $[5.9,6.1]$ | B2 | B1 for two circles drawn accurately |
| :---: | :--- | :---: | :---: |


| 4(a) | Any line perpendicular to $L M$ | B1 |  |
| :---: | :--- | :---: | :---: |
| 4(b) | Any line parallel to and twice the <br> length of $L M$ | B1 |  |


| Q Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |



| Q Answer | Mark | Comments |
| :---: | :---: | :---: | :---: |



| 7(a) | A | B1 |  |
| :---: | :---: | :---: | :---: |
| 7(b) | (FORWARD 6 cm TURN RIGHT) FORWARD 4 cm TURN RIGHT FORWARD 6 cm TURN RIGHT FORWARD 4 cm | B2 | B1 if all turns are RIGHT <br> B1 if distances alternate 4, 6, 4 |


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| :---: | :---: | :---: | :---: |

B1 for a circle drawn with radius 6 cm
from P or Q.
B 1 for two circles of equal radii drawn
from P and Q and areas of no mobile
phone coverage marked.
9 B2

