# Topic Test 1 Mark Scheme
## Indices - Foundation

| Q | Answer | Mark | Comments |
|---|--------|------|----------|
| **1** | 10 or $2^{10}$ | B1 | |
| **2** | 343 | B1 | |
| **3(a)** | 0.2 | B1 | |
| **3(b)** | 58.808 or 58.8 or 58.81 | B1 | |
| **4** | 144 | B1 | |
| **5(a)** | $11^{16}$ | B1 | Accept 16 |
| **5(b)** | $2^{10}$ | B1 | Accept 10 |
| **6** | 64 + 27 | B1 | |
| **7** | $11^2 + 14^2 = 317$<br>or $12^2 + 15^2 = 369$<br>$13^2 + 16^2 = 425$ | M1 | |
| | 12 and 15 | A1 | |
| **8** | 65 | B1 | |
| **9** | 18 | B1 | |
| **10** | 14 | B1 | |

| Q | Answer | Mark | Comments |
|---|---|---|---|
| **11** | 16 or 9 or 25 seen | M1 | |
| | 5 | A1 | |

| Q | Answer | Mark | Comments |
|---|---|---|---|
| **12** | $10^3$ | B1 | Accept 3 |

| Q | Answer | Mark | Comments |
|---|---|---|---|
| **13** | 7 | B1 | |
| | −7 | B1 | |

| Q | Answer | Mark | Comments |
|---|---|---|---|
| **14** | Yes ticked and<br><br>odd × odd = odd<br><br>even × even = even<br><br>odd − even = odd<br><br>and even − odd = odd | B2 | B1 for Yes ticked and 2 examples shown to be true<br><br>or<br><br>B1 for Yes ticked and partial explanation |