# Mark scheme

## Ordering and comparing numbers

Mathematics 0580 · Questions from Paper 1, Paper 2 and Paper 4

Total marks

**19**

**MARKS FOR EACH QUESTION**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | **19** |

### Question 1 [1]

| | | | |
|---|---|---|---|
| **1** | −14 | **1** | |

### Question 2 [2]

| | | | |
|---|---|---|---|
| **2**(a) | 0.16 | **1** | |
| **2**(b) | 0.06 0.078 0.42 0.5 | **1** | |

### Question 3 [2]

| | | | |
|---|---|---|---|
| **3**(a) | −6, −7, −8 | **1** | |
| **3**(b) | −120 | **1** | |

### Question 4 [2]

| | | | |
|---|---|---|---|
| **4** | −16 | **2** | **M1** for 4 × 6.5 |

### Question 5 [2]

| | | | |
|---|---|---|---|
| **5** | $\frac{3}{10}$ $\frac{1}{3}$ 34% 3 π | **2** | **B1** for 4 in the correct order<br>or **M1** for decimal equivalents to compare numbers 0.34, 3.1..,0.33, [3], 0.3 |

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**Question 6** **[2]**

| | | | |
|---|---|---|---|
| **6** | Sammy<br>and<br>correct reason with 25.7% oe shown | **2** | **B1** for 25.7% or 0.257... seen<br>or conversion of 26% to fraction and common denominator |

**Question 7** **[2]**

| | | | |
|---|---|---|---|
| **7** | $0.8^2$ | **2** | **M1** conversion of $\frac{16}{27}$ (= 0.5(9...)) and<br>$0.8^2$ (= 0.64) to decimals seen |

**Question 8** **[2]**

| | | | |
|---|---|---|---|
| **8**(a) | 63 | **1** | |
| **8**(b) | –432 | **1** | |

**Question 9** **[2]**

| | | | |
|---|---|---|---|
| **9** | cos38 sin38 sin158 cos158 | **2** | **M1** correct decimals seen<br>0.3(74..) –0.9(271..) 0.7(88..) 0.6(15..) |

**Question 10** **[2]**

| | | | |
|---|---|---|---|
| **10** | 320% of $\frac{m}{10}$ 33% of $m$ $\frac{1}{3}$ of $m$ $m$ | **2** | **B1** for three in the correct order |

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