

National 5**Surds****Homework Marking Scheme - EF**

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|----|-----|-------------------------------------|---|--------------------------|-----------|
| 1. | (a) | $7\sqrt{3}$
$2\sqrt{3}$ | 1 | simplifying $\sqrt{147}$ | |
| | (b) | $\frac{\sqrt{6} + 2 - \sqrt{6}}{2}$ | 1 | answer | |
| | | | 1 | multiplying out brackets | |
| | | | 1 | simplifying to answer | [4 marks] |
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|----|--|--|---|---|-----------|
| 2. | | $\frac{2\sqrt{5} + 2\sqrt{5} - 3\sqrt{5}}{\sqrt{5}}$ | 1 | simplifying $\sqrt{45}$ and $\sqrt{20}$ | |
| | | | 1 | answer | [2 marks] |
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|----|--|---|---|--|-----------|
| 3. | | $\frac{5}{2\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}}$
$\frac{5\sqrt{3}}{6}$ | 1 | knowing to multiply by $\frac{\sqrt{3}}{\sqrt{3}}$ | |
| | | | 1 | answer | [2 marks] |

National 5**Indices****Homework Marking Scheme - EF**

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|----|--|-------|---|--------|----------|
| 1. | | m^2 | 1 | answer | [1 mark] |
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|----|--|-----------------------------|---|-----------------------------|-----------|
| 2. | | m^{-3}
$\frac{1}{m^3}$ | 1 | simplifying | |
| | | | 1 | writing with positive power | [2 marks] |
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|----|--|--------------------------|---|----------------------|-----------|
| 3. | | $p^5 - p^0$
$p^5 - 1$ | 1 | multiplying brackets | |
| | | | 1 | simplifying | [2 marks] |
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|----|--|----------------------|---|--------------------|-----------|
| 4. | | 6
a^3
$6a$ | 1 | number | |
| | | | 1 | multiplying letter | |
| | | | 1 | answer | [3 marks] |

National 5**Scientific Notation/Significant Figures****Homework Marking Scheme - EF**

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|----|--|--|---|-------------------------------|-----------|
| 4. | | $93\,000\,000 \times 5.2$
4.836×10^8 | 1 | correct calculation | |
| | | | 1 | answer in scientific notation | [2 marks] |
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|----|--|--|---|--------------------------|-----------|
| 5. | | $1.2 \times 10^8 \div 365$
$\pounds 328\,767$ | 1 | correct calculation | |
| | | | 1 | answer correctly rounded | [2 marks] |