

# Practical Maths for Electrical Installation Students & Apprentices

## Worksheet 6: Answer Sheet

### Powers

Question number	Answer	Working Summary
1	4	$2 \times 2$
2	27	$3 \times 3 \times 3$
3	$4^3$	Repeated multiplication
4	25	$5 \times 5$
5	$2^5$	Add indices
6	$5^2$	Subtract indices
7	$3^4$	Multiply indices
8	$10^4$	$3+1$

<b>9</b>	<b>1</b>	<b>Any number<sup>0</sup>=1</b>
<b>10</b>	<b>1</b>	<b>Rule</b>
<b>11</b>	<b>1/5</b>	<b>Negative power</b>
<b>12</b>	<b>1/8</b>	<b>1/(2<sup>3</sup>)</b>
<b>13</b>	<b>40</b>	<b>4×10</b>
<b>14</b>	<b>54</b>	<b>27×2</b>
<b>15</b>	<b>8</b>	<b>2<sup>3</sup>=8</b>
<b>16</b>	<b>10<sup>5</sup></b>	<b>Add indices</b>
<b>17</b>	<b>64</b>	<b>4×4×4</b>
<b>18</b>	<b>2<sup>2</sup></b>	<b>Subtract indices</b>
<b>19</b>	<b>5<sup>5</sup></b>	<b>Add indices</b>
<b>20</b>	<b>25</b>	<b>9+16</b>