<table>
<tr><td>8 (a)</td><td>eg $2 \times 2 \times 75$
or $3 \times 5 \times 20$
or $2 \times 3 \times 50$
or $5^2 \times 12$
or
<table><tr><td>2</td><td>300</td></tr><tr><td>2</td><td>150</td></tr><tr><td></td><td>75</td></tr></table></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>Working required</td><td>$2 \times 2 \times 3 \times 5 \times 5$</td><td></td><td>A1</td><td>dep on M1, oe eg $2^2 \times 3 \times 5^2$</td></tr>
<tr><td></td><td>(b)</td><td>($5A$ =) $2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5$ oe (= 1800)
or
($5A$ =) $2^3 \times 3^2 \times 5^2$ (= 1800)
or
($7B$ =) $2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 7$ oe (= 3780)
or
($7B$ =) $2^2 \times 3^3 \times 5 \times 7$ (= 3780)</td><td></td><td>2</td><td>M1</td><td>for method to find $5A$ or $7B$ as prime factors (may be seen in factor tree, table or Venn diagram) or as an integer

or for listing at least 3 multiples of each number eg 1800, 3600, 5400... and 3780, 7560, 11 340...

or for an answer of 1080 oe eg $2^3 \times 3^3 \times 5$</td></tr>
<tr><td></td><td>Working required</td><td>37 800</td><td></td><td>A1</td><td>dep on M1, oe eg $2^3 \times 3^3 \times 5^2 \times 7$</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>Total 4 marks</td></tr>
</table>