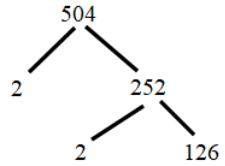
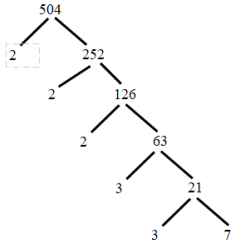
<table>
<tr><td rowspan="3">2</td><td>eg 2 × 252 = 2 × 4 × 63
or 2 × 252 = 2 × 2 × 126
or 2 × 252 = 2 × 3 × 84
or 4 × 126 = 4 × 9 × 14
or 9 × 56 = 3 × 3 × 56
or 9 × 56 = 9 × 7 × 8

eg


eg
<table><tr><td>2</td><td>504</td></tr><tr><td>2</td><td>252</td></tr><tr><td></td><td>126</td></tr></table></td><td></td><td rowspan="3">3</td><td>M1</td><td>for finding prime factors or factors after at least 2 stages of prime factorisation seen with 0 incorrect stages
eg 2 × 252 = 2 × 4 × 63
or
for finding at least 2 prime factors after at least 3 stages in prime factorisation seen with no more than 1 incorrect stage
eg 4 × 500 = 2 × 2 × 10 × 50

Each stage gives 2 factors – may be in a factor tree or a table or listed (see LHS for examples of the amount of work needed for the award of this mark)</td></tr>
<tr><td>eg 2 × 2 × 2 × 3 × 3 × 7 oe

eg


eg
<table><tr><td>2</td><td>504</td></tr><tr><td>2</td><td>252</td></tr><tr><td>2</td><td>126</td></tr><tr><td>3</td><td>63</td></tr><tr><td>3</td><td>21</td></tr><tr><td></td><td>7</td></tr></table></td><td></td><td>M1</td><td>dep on M1
for prime factors 2, 2, 2, 3, 3, 7 with no others (ignore 1s)

award this mark for
2, 4, 3, 3, 7 or 2, 2, 2, 9, 7 or 2, 2, 6, 3, 7
or 2, 2^2, 3, 3, 7 or 2^3, 9, 7 or 2, 2, 2, 3, 14
or 8, 3, 3, 7 or 2, 2, 2, 3^2, 7 or 2, 2, 3^2, 14
or 2^3, 3, 3, 7 or 2, 2, 2, 3, 21
or 2^3, 3, 21

Can be in any form, eg listed, multiplied, added
May be seen in a factor tree or ladder</td></tr>
<tr><td>Working required</td><td>$2^3 \times 3^2 \times 7$</td><td>A1</td><td>dep on M2, may be in any order and allow $2^3 \cdot 3^2 \cdot 7$</td></tr>
<tr><td></td><td></td><td></td><td></td><td>Total 3 marks</td></tr>
</table>