

<b>1</b>	$2 \times 2 \times 31$	M1  A1	for a complete method to find prime factors; could be shown on a complete factor tree with no more than one error <b>or</b> by division by prime factors with no more than one error  <b>or</b> for 2, 2, 31, (1)  for $2 \times 2 \times 31$ oe	Condone the inclusion of 1 for this mark   Accept $2^2 \times 31$
2	2 factors	B1	at least 2 of 1,5,7,35	No incorrect factors
<b>3</b>	Suitable number eg 725	B1	for a suitable 3 digit number ending in 0 or 5	
<b>4</b>	Two from 1, 2, 3, 4, 6, 12	B1	for any two correct factors from 1, 2, 3, 4, 6, 12	Do not allow any incorrect numbers
<b>5</b>	168	M1  A1	for a list of at least 3 multiples of each number or for factors 3,2,2,2 oe and 7,2,2,2 oe (could be shown in a factor tree or Venn diagram or table)  cao	Condone the use of 1 as a factor
<b>6</b>	10 or 12	B1	for 10 or 12	Accept both 10 and 12 given
<b>7</b>	$2^2 \times 5^3$	M1  M1  A1	for a complete method to find prime factors; could be shown on a complete factor tree with no more than one error or by division by prime factors with no more than one error  for complete factorisation, eg 2, 2, 5, 5, 5  for $2^2 \times 5^3$	Condone the inclusion of 1 for the method marks  Could be shown on a fully correct factor tree
<b>8</b>	18	B1	cao	
<b>9</b>	Three correct factors	B2   (B1	for at least <b>three</b> from 1, 2, 4, 5, 10, 20   for <b>two</b> correct factors from 1, 2, 4, 5, 10, 20 and no more than one incorrect factor)	No incorrect factors No repeats (within the chosen 3) Ignore extra correct factors. Accept factor pairs, eg. $1 \times 20$ as two factors
<b>10</b>	100	B1	cao	
<b>11</b>	$2 \times 2 \times 3 \times 5$	M1  A1	for a complete method to find prime factors, could be shown on a complete factor tree, with no more than one error or by division by prime factors with no more than one error  <b>or</b> for 2, 2, 3, 5 (1)  for $2 \times 2 \times 3 \times 5$ oe	Condone the inclusion of 1 for the method mark   Accept $2^2 \times 3 \times 5$
<b>12</b>	(a) 63 (b) 15876	B1  M1  A1	for 63, accept $3 \times 3 \times 7$ or $3^2 \times 7$  for at least two of $2^2, 3^4, 7^2$ <b>or</b> shows at least 3 multiples of 2268, eg 2268, 4536, 6804 and at least 3 multiples of 441, eg 441, 882, 1323  for 15876 or $2^2 \times 3^4 \times 7^2$ oe	(A =) $2^2 \times 3^4 \times 7$ scores 0 marks