**Algebraic Fractions - Factorise and Simplify**

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| Name : | Class : | Date : |

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| **1)** Simplify the following      a)  $\frac{18a-21}{3}$     b)  $\frac{3+12a}{30+27a}$     c)  $\frac{5b-40}{2b-16}$ | [10]   |
|      d)  $\frac{12b^{2}-16b}{9b-12}$     e)  $\frac{b^{2}+4b+3}{b+3}$     f)  $\frac{y+2}{y^{2}+6y+8}$ |  |
|      g)  $\frac{b^{2}+2b-48}{b+8}$     h)  $\frac{z+4}{z^{2}-4z-32}$     i)  $\frac{z^{2}+8z+7}{z^{2}+3z+2}$ |  |
|      j)  $\frac{y^{2}-13y+40}{y^{2}-11y+30}$ |  |

**Solutions for the assessment Algebraic Fractions - Factorise and Simplify**

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| **1)**  a)  $\frac{6a-7}{1}$ |      b)  $\frac{1+4a}{10+9a}$ |
|      c)  $\frac{5}{2}$ |      d)  $\frac{4b}{3}$ |
|      e)  $b+1$ |      f)  $\frac{1}{y+4}$ |
|      g)  $b-6$ |      h)  $\frac{1}{z-8}$ |
|      i)  $\frac{z+7}{z+2}$ |      j)  $\frac{y-8}{y-6}$ |