**Algebraic Fractions - Factorise and Simplify**

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| Name : | Class : | Date : |

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| **1)** Simplify the following      a)  $\frac{15x-35}{20}$     b)  $\frac{6d+30}{18d+24}$     c)  $\frac{18a-21}{42a-49}$ | [10]   |
|      d)  $\frac{20x^{2}-15x}{16x-12}$     e)  $\frac{x^{2}+16x+63}{x+9}$     f)  $\frac{c+8}{c^{2}+13c+40}$ |  |
|      g)  $\frac{a^{2}-2a-48}{a+6}$     h)  $\frac{z-8}{z^{2}-7z-8}$     i)  $\frac{y^{2}+8y+7}{y^{2}+11y+28}$ |  |
|      j)  $\frac{b^{2}-5b+4}{b^{2}+3b-4}$ |  |

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

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