**Algebraic Fractions - Multiply and Divide**

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| Name : | Class : | Date : |

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| **1)** Simplify      a)  $\frac{21a}{24b^{2}}×\frac{6b}{7a^{3}}$     b)  $\frac{6e^{3}}{5d^{3}}×\frac{20d}{18e}$     c)  $\frac{7a^{2}}{4b}×\frac{12b^{2}}{28a}$ | [12]   |
|      d)  $\frac{3e}{7d^{3}}×\frac{21d}{12e^{4}}$     e)  $\frac{4b^{3}}{7b}×\frac{21a}{16a^{4}}$     f)  $\frac{9c^{2}}{8b}×\frac{4b^{3}}{3c}$ |  |
|      g)  $\frac{20y^{3}}{45y}$     h)  $\frac{6x^{12}y^{11}}{10x^{8}y^{9}}$     i)  $\frac{35p^{5}q^{7}r^{7}}{15p^{3}q^{4}r^{3}}$ |  |
|      j)  $\frac{6z^{4}}{12y}÷\frac{3z}{4y^{3}}$     k)  $\frac{6a}{12c^{4}}÷\frac{2a^{4}}{3c}$     l)  $\frac{2c^{2}}{7c}÷\frac{6a^{2}}{14a}$ |  |

**Solutions for the assessment Algebraic Fractions - Multiply and Divide**

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| **1)**  a)  $\frac{3}{4a^{2}b}$ |      b)  $\frac{4e^{2}}{3d^{2}}$ |
|      c)  $\frac{3ab}{4}$ |      d)  $\frac{3}{4d^{2}e^{3}}$ |
|      e)  $\frac{3b^{2}}{4a^{3}}$ |      f)  $\frac{3b^{2}c}{2}$ |
|      g)  $\frac{4y^{2}}{9}$ |      h)  $\frac{3x^{4}y^{2}}{5}$ |
|      i)  $\frac{7p^{2}q^{3}r^{4}}{3}$ |      j)  $\frac{2y^{2}z^{3}}{3}$ |
|      k)  $\frac{3}{4a^{3}c^{3}}$ |      l)  $\frac{2c}{3a}$ |