**Algebraic Fractions - Multiply and Divide**

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| Name : | Class : | Date : |

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| **1)** Simplify      a)  $\frac{15y}{4z^{3}}×\frac{2z}{5y^{4}}$     b)  $\frac{21a}{8a^{3}}×\frac{4c^{2}}{7c}$     c)  $\frac{7x^{3}}{4y}×\frac{12y^{2}}{14x}$ | [12]   |
|      d)  $\frac{28y}{9z^{3}}×\frac{3z}{7y^{3}}$     e)  $\frac{5z^{4}}{3y^{2}}×\frac{9y}{20z}$     f)  $\frac{7a^{2}}{6c}×\frac{18c^{2}}{14a}$ |  |
|      g)  $\frac{35b^{3}}{30b}$     h)  $\frac{9p^{6}q^{4}}{24p^{9}q^{7}}$     i)  $\frac{20p^{3}q^{3}r^{4}}{36p^{5}q^{5}r^{7}}$ |  |
|      j)  $\frac{6d^{3}}{5e}÷\frac{18d}{20e^{4}}$     k)  $\frac{6x}{12y^{4}}÷\frac{3x^{4}}{4y}$     l)  $\frac{7y^{3}}{6y}÷\frac{14x^{2}}{18x}$ |  |

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

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| **1)**  a)  $\frac{3}{2y^{3}z^{2}}$ |      b)  $\frac{3c}{2a^{2}}$ |
|      c)  $\frac{3x^{2}y}{2}$ |      d)  $\frac{4}{3y^{2}z^{2}}$ |
|      e)  $\frac{3z^{3}}{4y}$ |      f)  $\frac{3ac}{2}$ |
|      g)  $\frac{7b^{2}}{6}$ |      h)  $\frac{3}{8p^{3}q^{3}}$ |
|      i)  $\frac{5}{9p^{2}q^{2}r^{3}}$ |      j)  $\frac{4d^{2}e^{3}}{3}$ |
|      k)  $\frac{2}{3x^{3}y^{3}}$ |      l)  $\frac{3y^{2}}{2x}$ |