**Algebraic Fractions - Multiply and Divide**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /12 | % |

|  |  |
| --- | --- |
| **1)** Simplify      a)  $\frac{2c}{7b^{4}}×\frac{14b}{6c^{4}}$     b)  $\frac{3b^{3}}{5b}×\frac{15a}{6a^{2}}$     c)  $\frac{3b^{3}}{5c}×\frac{15c^{3}}{6b}$ | [12]   |
|      d)  $\frac{8a}{15c^{4}}×\frac{5c}{2a^{3}}$     e)  $\frac{28a}{15c}×\frac{5c^{2}}{7a^{2}}$     f)  $\frac{16y^{2}}{15x}×\frac{5x^{4}}{4y}$ |  |
|      g)  $\frac{15a^{3}}{21a^{2}}$     h)  $\frac{12a^{7}b^{6}}{15a^{11}b^{10}}$     i)  $\frac{21x^{5}y^{3}}{30x^{8}y^{5}}$ |  |
|      j)  $\frac{15b^{4}}{24a}÷\frac{5b}{6a^{4}}$     k)  $\frac{5c}{4a^{4}}÷\frac{15c^{2}}{16a}$     l)  $\frac{5c^{3}}{7a^{3}}÷\frac{10c}{21a}$ |  |

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

|  |  |
| --- | --- |
| **1)**  a)  $\frac{2}{3b^{3}c^{3}}$ |      b)  $\frac{3b^{2}}{2a}$ |
|      c)  $\frac{3b^{2}c^{2}}{2}$ |      d)  $\frac{4}{3a^{2}c^{3}}$ |
|      e)  $\frac{4c}{3a}$ |      f)  $\frac{4x^{3}y}{3}$ |
|      g)  $\frac{5a}{7}$ |      h)  $\frac{4}{5a^{4}b^{4}}$ |
|      i)  $\frac{7x^{3}}{10y^{2}}$ |      j)  $\frac{3a^{3}b^{3}}{4}$ |
|      k)  $\frac{4}{3a^{3}c}$ |      l)  $\frac{3c^{2}}{2a^{2}}$ |