**Odd One Out**

**Simplifying Algebraic Fractions**

Simplify each of these algebraic fractions. Colour in the odd one out on each row.

|  |  |  |
| --- | --- | --- |
| $$\frac{4x}{8}$$ | $$\frac{3y}{6xy}$$ | $$\frac{x^{2}}{2x}$$ |
| $$\frac{4x^{2}}{2x}$$ | $$\frac{3x^{2}}{3x}$$ | $$\frac{xy}{y}$$ |
| $$\frac{2}{2x}$$ | $$\frac{4y}{4xy^{2}}$$ | $$\frac{y}{xy}$$ |
| $$\frac{6xy}{12}$$ | $$\frac{4xy}{2}$$ | $$\frac{x^{2}y}{2x}$$ |
| $$\frac{3x}{xy^{2}}$$ | $$\frac{15x^{2}}{5y^{2}x^{2}}$$ | $$\frac{6x^{2}}{2xy}$$ |
| $$\frac{2x^{2}}{5x}$$ | $$\frac{20x^{2}}{50x^{3}}$$ | $$\frac{4xy}{10x^{2}y}$$ |
| $$\frac{x^{3}y^{2}}{yx^{2}}$$ | $$\frac{7x^{3}y}{7xy}$$ | $$\frac{7x^{5}y}{7x^{4}}$$ |
| $$\frac{2xy^{3}}{6x^{2}y^{2}}$$ | $$\frac{6xy}{18x^{2}y^{2}}$$ | $$\frac{x^{2}y^{2}}{3x^{3}y^{3}}$$ |
| $$\frac{2x^{3}y}{8x^{2}y}$$ | $$\frac{(2xy)^{2}}{16xy^{2}}$$ | $$\frac{xy^{2}}{8xy^{2}}$$ |
| $$\frac{20x^{3}y^{3}}{(2xy)^{3}}$$ | $$\frac{5(xy)^{2}}{2x^{2}y^{2}}$$ | $$\frac{10x^{3}y}{xy}$$ |