

# Odd One Out

# Laws of Indices

Simplify each of the expressions. Colour in the odd one out on each row.

|          |                                   |                              |                             |
|----------|-----------------------------------|------------------------------|-----------------------------|
| <b>A</b> | $y^4 \times y^2$                  | $(y^4)^2$                    | $\frac{y^{10}}{y^4}$        |
| <b>B</b> | $(y^6)^2$                         | $y^5 \times y^7$             | $y^7 \div y^5$              |
| <b>C</b> | $y^0$                             | $y$                          | 1                           |
| <b>D</b> | $y^5 \times y^2$                  | $\frac{y^7}{y}$              | $y^5 \times y$              |
| <b>E</b> | $y^5 \times y^3 \times y^2$       | $\frac{y^6 \times y^7}{y^3}$ | $(y^5)^5$                   |
| <b>F</b> | $(y^{-2})^3$                      | $y^2 \times y^{-3}$          | $\frac{y^2}{y^8}$           |
| <b>G</b> | $\frac{y^8 \times y^{-2}}{y^3}$   | $y^{-2} \times y^5$          | $(y^{-1})^3$                |
| <b>H</b> | $y^1$                             | 1                            | $y^2 \div y$                |
| <b>I</b> | $y^2 \times (y^4)^3$              | $\frac{y^5 \times y^9}{y}$   | $y^7 \times y^2 \times y^4$ |
| <b>J</b> | $(2x)^3 \times x^4$               | $8x^5 \times x^2$            | $x^6 \times 2x$             |
| <b>K</b> | $(4x^2y)^2$                       | $4xy^2 \times x^3$           | $2xy^2 \times (2x)^3$       |
| <b>L</b> | $\frac{27x^5 \times y^3}{(3x)^2}$ | $(3y)^0 \times (xy)^3$       | $(xy)^3 \times 3x^0$        |