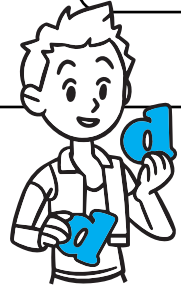


Name: _____

Advanced

Equivalent Expressions

Combining Like Terms



Terms need to have same **variable** and **exponent** in order to be combined.

example: $8d^2 + 5d^3 - 4d^2 - 3d^3 + 2$

$8d^2 - 4d^2$ $5d^3 - 3d^3$

$4d^2 + 2d^3 + 2$

The diagram shows the process of combining like terms. The original expression $8d^2 + 5d^3 - 4d^2 - 3d^3 + 2$ is shown with colored boxes around the terms: orange for $8d^2$ and $-4d^2$, green for $5d^3$ and $-3d^3$, and blue for $+2$. Arrows point from these terms to intermediate steps: $8d^2 - 4d^2$ and $5d^3 - 3d^3$. Further arrows point to the final simplified expression $4d^2 + 2d^3 + 2$.



Preview

Please log in to download
the printable version of this worksheet.

c $3g^3 + 7h - 2g^2 - 4h + 6g^3$

d $4y^2 - 6 - 8z + 7z^3 + 4 + 2y^2$

e $3e + 7d^3 + 2e^2 - 9 - 8e^2 + 4$

f $7k^2 + 4jk - 6 + 3k^3 + 2k^2 - 5jk$

ANSWER KEY

Advanced

Equivalent Expressions

Combining Like Terms



Terms need to have same **variable** and **exponent** in order to be combined.

example:

$$8d^2 + 5d^3 - 4d^2 - 3d^3 + 2$$

Preview

Please log in to download
the printable version of this worksheet.



$$3e - 6e^2 + 7d^3 - 5$$

$$9k^2 + 3k^3 - jk - 6$$