

Understand the meaning of like and unlike terms

1 Match the like terms.

$3h$
$2k$
11
b^2
$3ab$

$7k$
$3b^2$
$5h$
15
$5ba$

2 Tick to show whether the terms are like or unlike.

	Like terms	Unlike terms
a) $3y$ and $5y$	<input type="checkbox"/>	<input type="checkbox"/>
b) $5c$ and $5d$	<input type="checkbox"/>	<input type="checkbox"/>
c) $3e$ and $3e^2$	<input type="checkbox"/>	<input type="checkbox"/>
d) h and $246h$	<input type="checkbox"/>	<input type="checkbox"/>
e) 246 and $246h$	<input type="checkbox"/>	<input type="checkbox"/>
f) a^2 and b^2	<input type="checkbox"/>	<input type="checkbox"/>
g) $5a^2$ and a^2	<input type="checkbox"/>	<input type="checkbox"/>

3 a) Circle the terms that are like $7xy$.

$3x$ $4y$ $2xy$ $5yx$

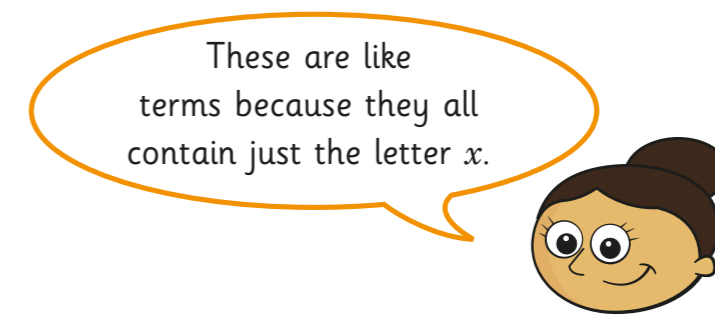
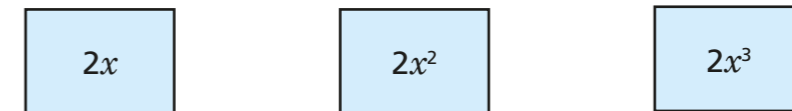
b) Circle the terms that are like h^2 .

$5h$ $3h^2$ h^3 $-5h^2$

c) Circle the terms that are like $2p$.

$5p$ $\frac{1}{2}p$ 11 $0.957p$

4 Dora has these expression cards.



What mistake has Dora made?

5 Write five different like terms for each term.

a) $4c$

b) $-g$

c) $\frac{2}{5}a^2$

Compare answers with a partner.

How did you find like terms?

What was important? What was not important?



6 Explain why these terms are like and unlike.

Like terms
$14h$ and $15h$
6 and -5
$18p$ and $-8p$
c^2 and $20c^2$
$7ab$ and ba

Unlike terms
$14h$ and $15g$
$6x$ and -5
$-18p$ and -8
c and $20c^2$
$7ab$ and $7a$

7 Sort the expressions into sets of like terms.

Find as many sets as possible.

5	$5y$	-5	$-5y$	$-5y^2$
y^2	15	$15y$	-15	$1.5p$
y	$5y^2$	p	$-5p$	$5py$

8 a) Are $20r^2p$ and $\frac{1}{20}pr^2$ like terms? _____

Explain how you know.

b) Are 6, 11.4, $\frac{3}{5}$ and π like terms? _____

Explain your answer.

