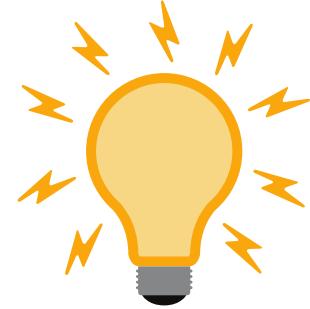


ALL ABOUT ALGEBRA

Session 1
An introduction
to the basics
of algebra

ALL ABOUT ALGEBRA

Session 1: an introduction



Practice section: **if $n = 3$**

1) $4n =$

2) $3n + 5 =$

3) $4n - 6 =$

4) $n^2 + 8 =$

Have a go! **if $n = 5$**

1) $3n =$

2) $7n =$

3) $100n =$

4) $6n + 8 =$

5) $8n + 6 =$

6) $20n + 12 =$

7) $8n - 12 =$

8) $9n - 20 =$

9) $20n - 12 =$

10) $n^2 + 8 =$

11) $n^2 - 8 =$

12) $n^3 - 100 =$

Challenge **if $x = 6$ and $y = 8$**

1) $3x - y =$

2) $2y - x =$

3) $3x - 2y =$

4) $2y - 2x =$

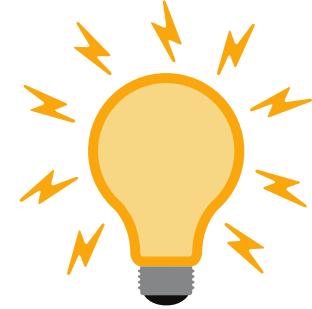
5) $5 + xy =$

6) $xy - 5 =$



ALL ABOUT ALGEBRA

Session 1: ANSWERS



Practice section: if $n = 3$

1) $4n = \textcolor{green}{12}$

2) $3n + 5 = \textcolor{green}{14}$

3) $4n - 6 = \textcolor{green}{6}$

4) $n^2 + 8 = \textcolor{green}{17}$

Have a go! if $n = 5$

1) $3n = \textcolor{green}{15}$

2) $7n = \textcolor{green}{35}$

3) $100n = \textcolor{green}{500}$

4) $6n + 8 = \textcolor{green}{38}$

5) $8n + 6 = \textcolor{green}{46}$

6) $20n + 12 = \textcolor{green}{112}$

7) $8n - 12 = \textcolor{green}{28}$

8) $9n - 20 = \textcolor{green}{25}$

9) $20n - 12 = \textcolor{green}{88}$

10) $n^2 + 8 = \textcolor{green}{33}$

11) $n^2 - 8 = \textcolor{green}{17}$

12) $n^3 - 100 = \textcolor{green}{25}$

Challenge if $x = 6$ and $y = 8$

1) $3x - y = (\textcolor{blue}{3x6}) - 8 = \textcolor{blue}{10}$

2) $2y - x = (\textcolor{blue}{2x8}) - 6 = \textcolor{blue}{10}$

3) $3x - 2y = (\textcolor{blue}{3x6}) - (\textcolor{blue}{2x8}) = \textcolor{green}{2}$

4) $2y - 2x = (\textcolor{blue}{2x8}) - (\textcolor{blue}{2x6}) = \textcolor{green}{4}$

5) $5 + xy = \textcolor{blue}{5} + (\textcolor{blue}{6x8}) = \textcolor{blue}{53}$

6) $xy - 5 = (\textcolor{blue}{6x8}) - 5 = \textcolor{green}{43}$

