

Multiplying Two Brackets

Today we are learning...

How to multiply out two brackets.

I will know if I have been successful if...

I can multiply to get the squared term in an expansion.

I can multiply to get the x and constant term.

I can simplify my answer.



Level 4 - What we should know already....

Expand...

a) $5(x + 9) = 5x + 45$

b) $3(b - 2) = 3b - 6$

Multiplying Two Brackets

Expand...

$$\begin{aligned} (x+3)(x+4) &= x^2 + 4x + 3x + 12 \\ &= x^2 + 7x + 12 \end{aligned}$$

Multiplying Two Brackets

Expand...

$$\begin{aligned} (x-2)(x-7) &= x^2 - 7x - 2x + 14 \\ &= x^2 - 9x + 14. \end{aligned}$$

$$\begin{aligned} 3) \quad & (2x + 1)(x - 3) \\ & = 2x^2 - 6x + x - 3 \\ & = \underline{2x^2 - 5x - 3} \end{aligned}$$

Multiplying Two Brackets

Expand...

$$(2x - 1)(3x + 9)$$

Summary

Expand...

$$(x + 3)(x^2 - 6x + 4)$$

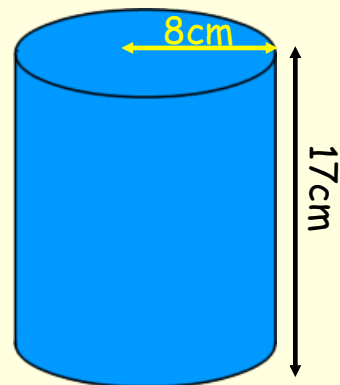
Starter

1) Expand the following brackets and simplify...

$$(2x + 1)(x - 3) =$$

2) Calculate the volume of the cylinder.

Leave your answer in terms of pi.



Revision of Factorising Using a Common Factor

Today we are revising...

How to factorise an expression by taking out a common factor.

I will know if I have been successful if...

I can take out a numerical common factor.

I can take out an algebraic common factor.

I can complete the factorisation of the expression.



Examples

Factorise the following expressions by taking out a common factor.

1) $64x + 72y =$

2) $42x^2y - 7x =$

3) $9ab^2 + 81a - 27ab =$

Post it Notes

Factorise one of the following:

Hot -

$$81xy z^3 - 72y^3 z^2$$

Mild -

$$24a + 6ab$$

Reminder

Tomorrow....

Volume Progress Check Assessment

If you have a calculator bring it!

Period 3