

ACTION

Revision Material



<http://corbettmaths.com/contents/>
Video 14 & 15

RESPONSE

Expand the brackets:

Fluency



- | | | |
|-----------------------|----------------------------|-------------------------------|
| 1. $(2x + 7)(x + 4)$ | 4. $(x + 1)(x + 3)(x + 5)$ | 7. $(x + a)^2(x - a)$ |
| 2. $(2x + 3)(3x + 5)$ | 5. $(2x + 3)^2(x + 2)$ | 8. $(3x + 2p)^3$ |
| 3. $(3x - 7)(5 - 6x)$ | 6. $(2 - 7x)^3$ | 9. $(5ax^2 - 2)^2(dx^2 - 8b)$ |

Reasoning



Find the values of a , b , c and d that would make the statements true

- 1) $(ax + 2)(5x + b) \equiv 10x^2 + bx + c$
- 2) $(2x + c)(bx - 4) \equiv ax^2 + bx - 28$
- 3) $(2x + c)(bx - 4)(cx + 4) \equiv ax^3 + dx^2 + 2bx - 32$

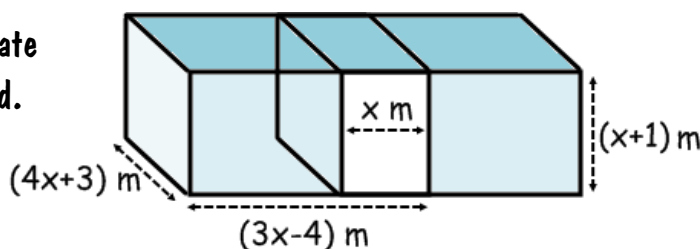
Problem Solving



Two congruent cuboids overlap as shown.

a) Find an expression for the volume of the larger cuboid they make.

b) If the surface area of the unshaded face is $20m^2$, calculate the volume of the larger cuboid.



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