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$$(x + 2)(x + 5)$$

A $x^2 + 7x + 10x$ $x^2 + 7x + 10$ B
C $x^2 + 7x + 7$ $x^2 + 7 + 10x$ D

Key Learning

- Expanding (or eliminating) brackets involves writing an equivalent expression without brackets. This can be done by writing the bracketed portion a number of times or by multiplying each term.
 $2(a + b) = a + b + a + b$ or $2(a + b) = 2 \times a + 2 \times b = 2a + 2b$
- To eliminate brackets, you can use the **distributive law**, which states that:
 $a(b + c) = ab + ac$ and $a(b - c) = ab - ac$
- The process of removing brackets using the distributive law is called **expansion**.
- When expanding, every term inside the brackets must be multiplied by the term outside the brackets.

Repeated Terms Repeat the expression that is inside the brackets and then collect like terms.

Name: _____		5-a-day	Foundation Plus
3rd June Solve $3(x - 2) + 2(x + 8) = x + 6$		Corbettmaths	
<p>Sally and Laura sit their driving tests.</p> <p>The probability of Sally passing her driving test is 0.7 The probability of Laura passing is 0.6</p>		Complete the tree diagram. Find the probability of both women passing.	
Solve $(x + 1)(x - 2) = 0$			
The size of each exterior angle of a regular polygon is 8 degrees. How many sides does the polygon have?		What is the sum of the interior angles of the polygon?	

LO : To be able expand brackets in algebra.

Expand the following brackets	Answer
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- | | |
|---------------|---------------|
| 1. 4(2a+4) | 1. 8a+16 |
| 2. 5(3b-c) | 2. 15b-5c |
| 3. 3(4b-2c) | 3. 12b-6c |
| 4. 6(3h-4k) | 4. 18h-24k |
| 5. 8(3r-2q-s) | 5. 24r-16q-8s |

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