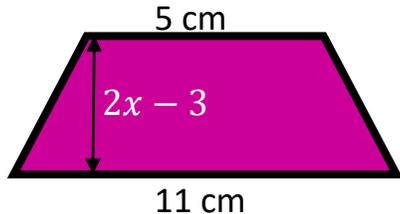




Timester Challenge

Expand and Simplify



<p>Expand</p> <p>a) $3(x + 5)$</p> <p>b) $7(x - 4)$</p> <p>Bronze ★</p>	<p>Expand and simplify</p> $3(x + 4) + 2(x + 5)$ <p>Silver ★</p>	<p>Expand and simplify</p> $2(x + 3) - (x + 7)$ <p>Gold ★</p>
<p>Expand</p> <p>a) $5(2x + 4)$</p> <p>b) $3(5 - 7x)$</p> <p>c) $4x(2x - y)$</p> <p>Bronze ★</p>	<p>Expand and simplify</p> $7(x + 4) + 5(x - 6)$ <p>Silver ★</p>	<p>Write an expression in it's simplest form for the area of the shape.</p>  <p>Gold ★</p>
<p>Expand and simplify</p> $8(x + 3) - 6(x - 4)$ <p>Silver ★</p>		



Timester Challenge

Expand and Simplify

Answers



<p>Expand</p> <p>a) $3(x + 5) = 3x + 15$</p> <p>b) $7(x - 4) = 7x - 28$</p> <p style="text-align: right;">Bronze ★</p>	<p>Expand and simplify</p> $3(x + 4) + 2(x + 5)$ $= 3x + 12 + 2x + 10$ $= 5x + 22$ <p style="text-align: right;">Silver ★</p>	<p>Expand and simplify</p> $2(x + 3) - (x + 7)$ $= 2x + 6 - x - 7$ $= x - 1$ <p style="text-align: right;">Gold ★</p>
<p>Expand</p> <p>a) $5(2x + 4) = 10x + 20$</p> <p>b) $3(5 - 7x) = 15 - 21x$</p> <p>c) $4x(2x - y) = 8x^2 - 4xy$</p> <p style="text-align: right;">Bronze ★</p>	<p>Expand and simplify</p> $7(x + 4) + 5(x - 6)$ $= 7x + 28 + 5x - 30$ $= 12x - 2$ <p><i>Extra</i></p> $= 2(6x - 1)$ <p style="text-align: right;">Silver ★</p>	<p>Write an expression in it's simplest form for the area of the shape.</p> <div style="text-align: center;"> </div> $\text{Area Trapezium} = \frac{a + b}{2} \times h$ $= \frac{(5 + 11)}{2} \times (2x - 3)$ $= 8(2x - 3)$ $= 16x - 24$ <p style="text-align: right;">Gold ★</p>
<p>Expand and simplify</p> $8(x + 3) - 6(x - 4)$ $= 8x + 24 - 6x + 24$ $= 2x + 48$ <p><i>Extra</i></p> $= 2(x + 24)$ <p style="text-align: right;">Silver ★</p>		