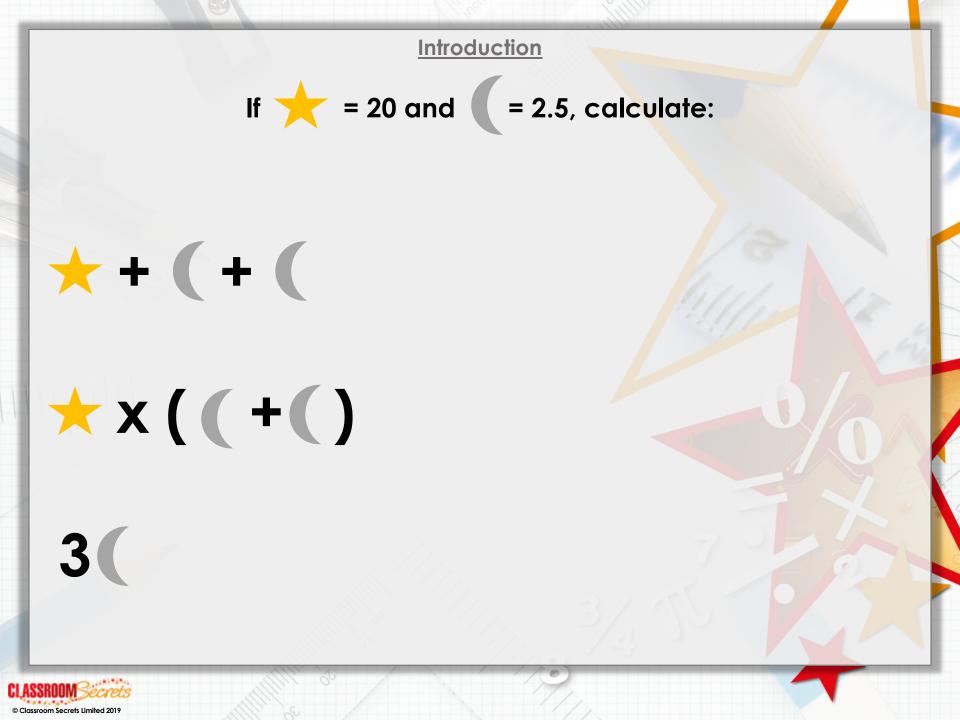
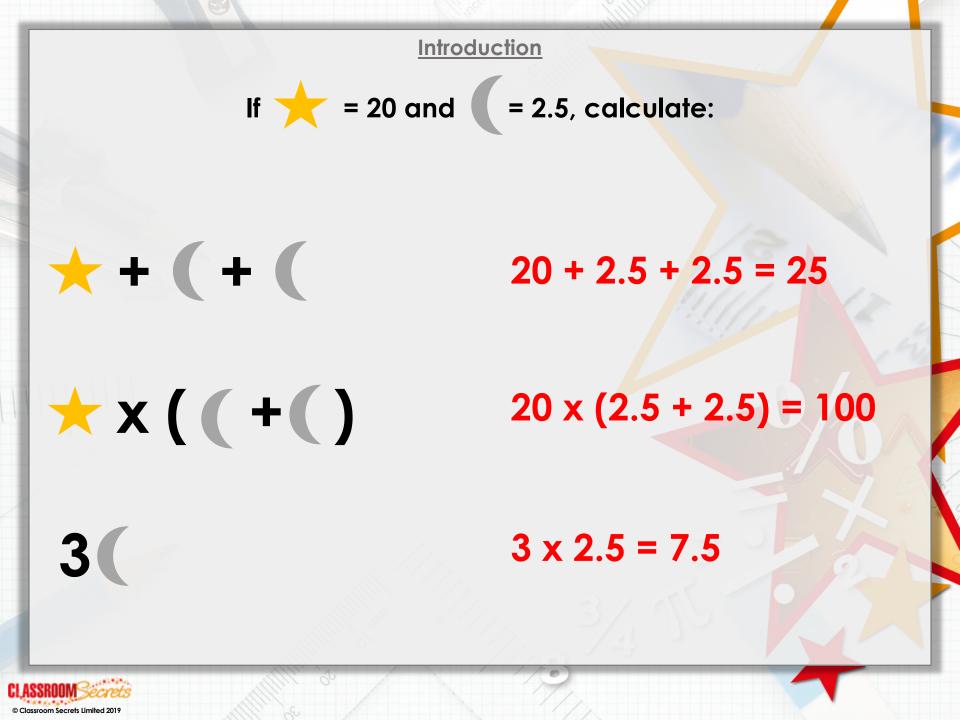
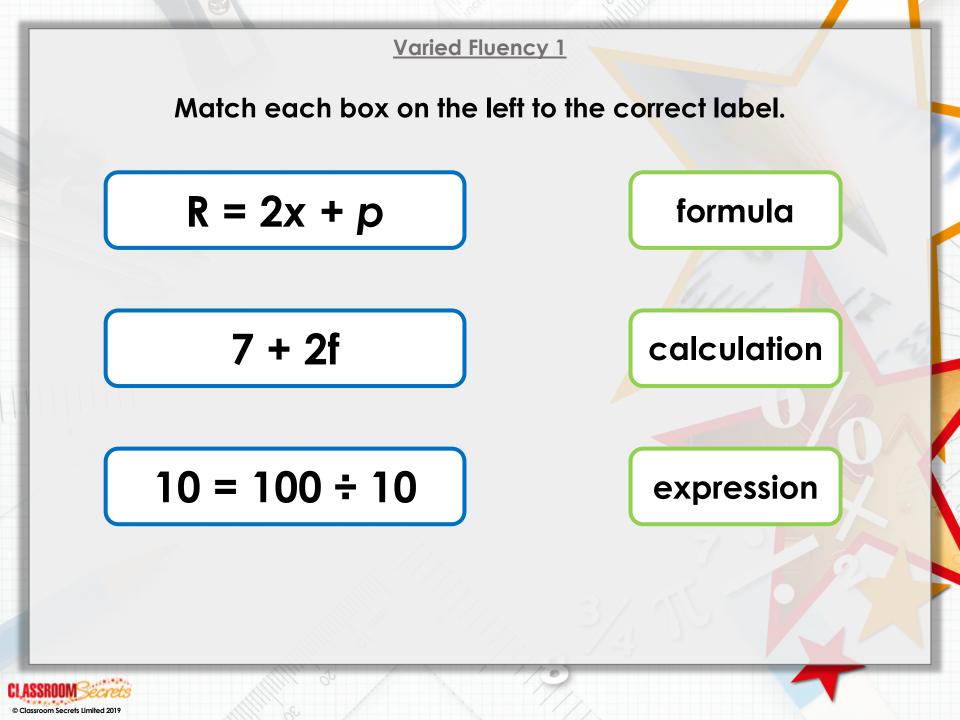
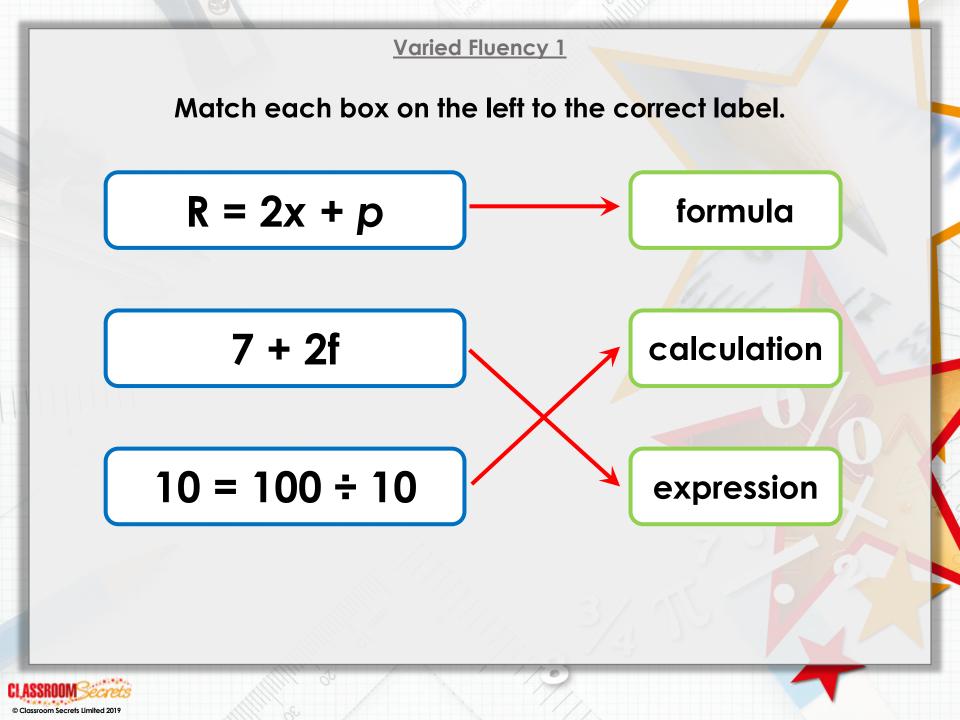
Wednesday 3rd June Year 5/6: Formulae



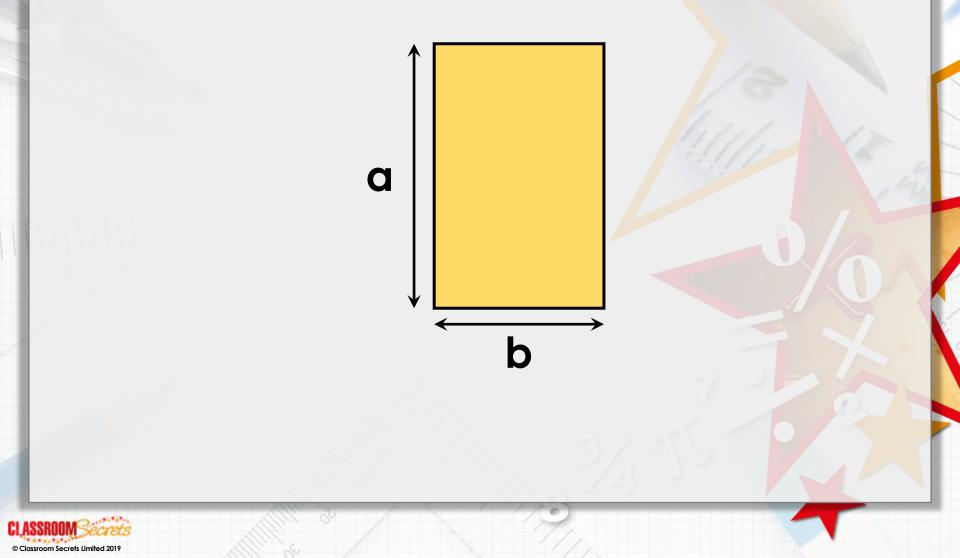




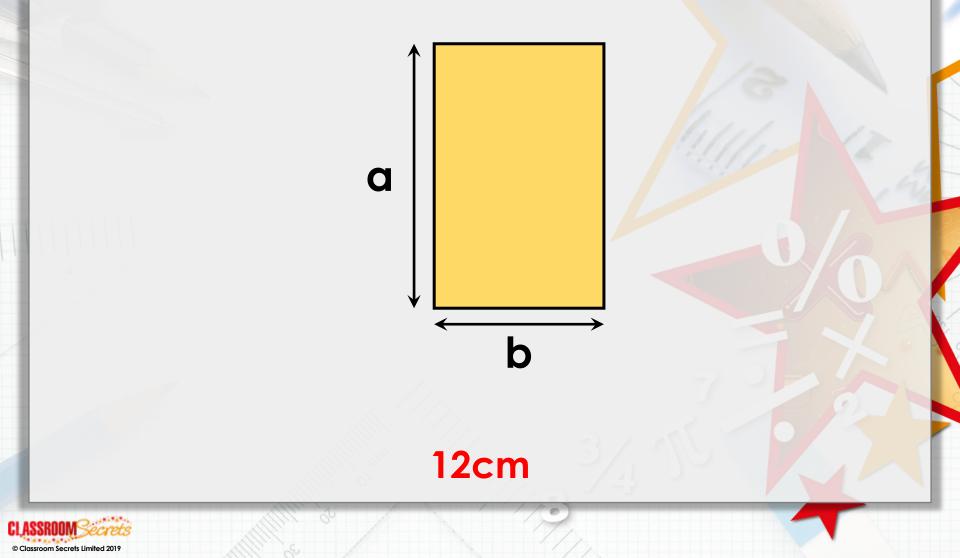




Work out the perimeter (P) of this shape using the formula P = 2a + 2b, if a = 2.5cm and b = 3.5cm.



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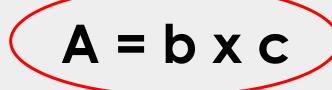


Circle the correct formula for finding the area of a shape (A).

$A = b \times c$ A = b + b + c + c $A = b \div c$



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A window cleaner is deciding how to charge for their services. They decide the price should be set at \pounds 1.20 per window (w) and \pounds 0.40 per mile (m) travelled.

Expressed as the formula:

$C = (1.20 \times w) + (0.4 \times m)$

A house has 10 windows and involves 5 miles travel. How much should the company charge?



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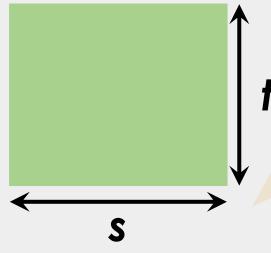
A house has 10 windows and involves 5 miles travel. How much should the company charge?

 $C = (1.20 \times 10) + (0.4 \times 5) = 12 + 2 = £14$



Problem Solving 1

Write a formula for the area of this shape.

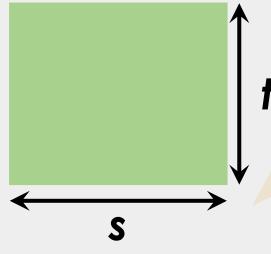


Use your formula to work out the area if s = 3.5cm and t = 4cm.



Problem Solving 1

Write a formula for the area of this shape.



Use your formula to work out the area if s = 3.5 cm and t = 4 cm.

$a = s x t = 3.5 cm x 4 cm = 14 cm^{2}$



Here is a formula for amount of fabric needed (F) to make a pair of curtains.

$F = 2w \times h$

A window is 5.4 metres wide (w) and 1 metre high (h). Jamie has 4m² of fabric.

Does Jamie have enough fabric? Convince me!



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Jamie does not have enough fabric because...



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Does Jamie have enough fabric? Convince me!

Jamie does not have enough fabric because:

 $F = (2 \times 5.4) \times 1 = 10.8 \times 1 = 10.8 m^2$



The children's pocket money (p) is calculated by halving their age (a) and adding 10.

Which two formulae represent this?

A.
$$p = 0.5a + 10$$

B. $p = 2a + 10$
C. $p = \frac{a}{2} + 10$

Explain how you know.



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Which two formulae represent this?

A. p = 0.5a + 10B. p = 2a + 10C. $p = \frac{a}{2} + 10$

Explain how you know.

A and C because...



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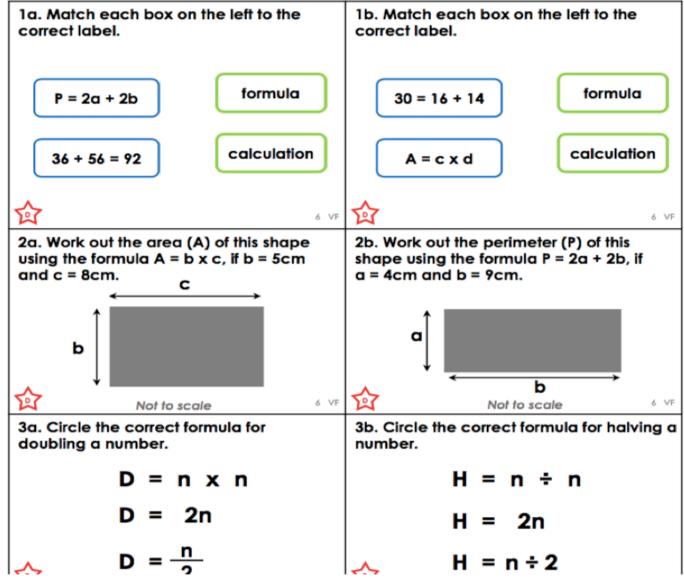
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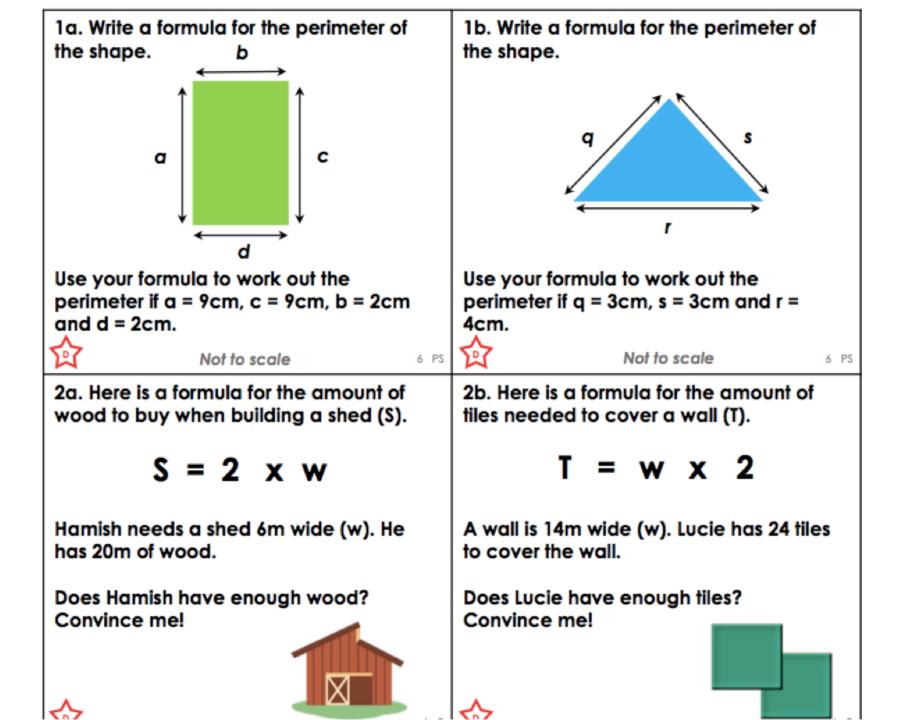
Explain how you know.

A and C because finding a half can be achieved by multiplying by 0.5 or dividing by 2.

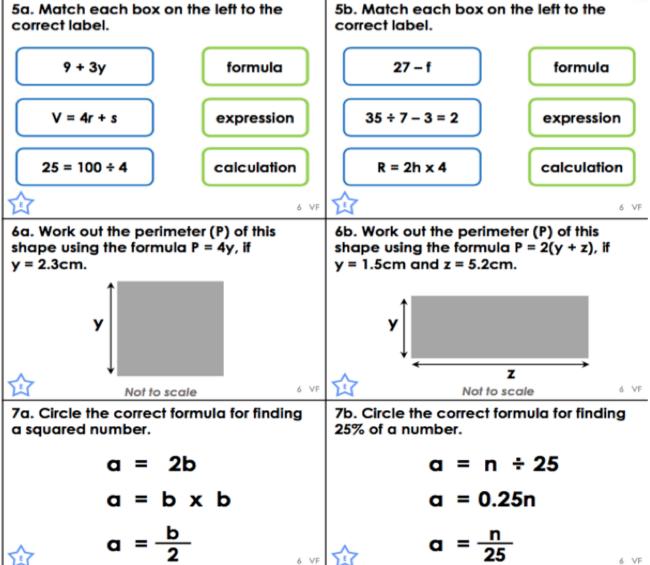


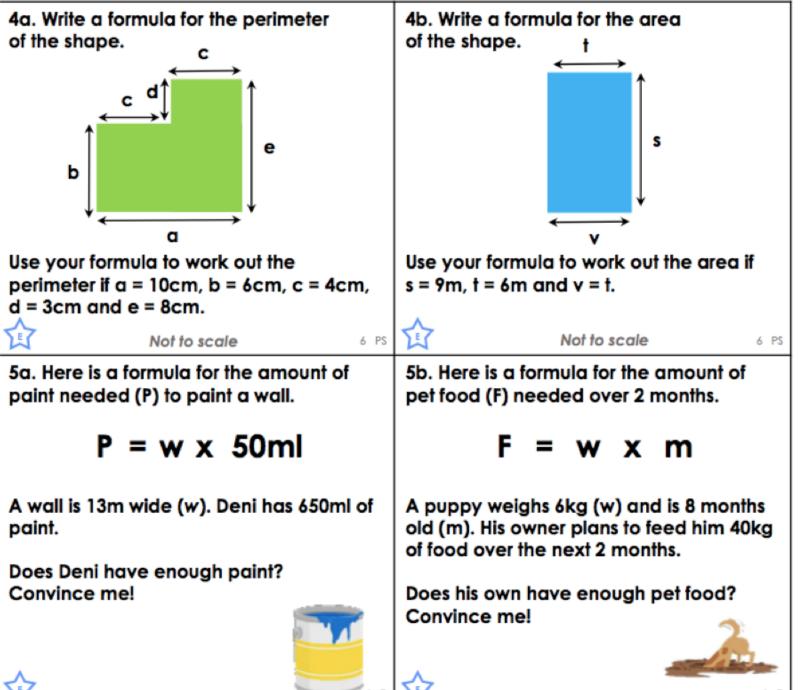
Year 5 and Year 6 Developing





Year 6 Expected





Year 6 Greater Depth

