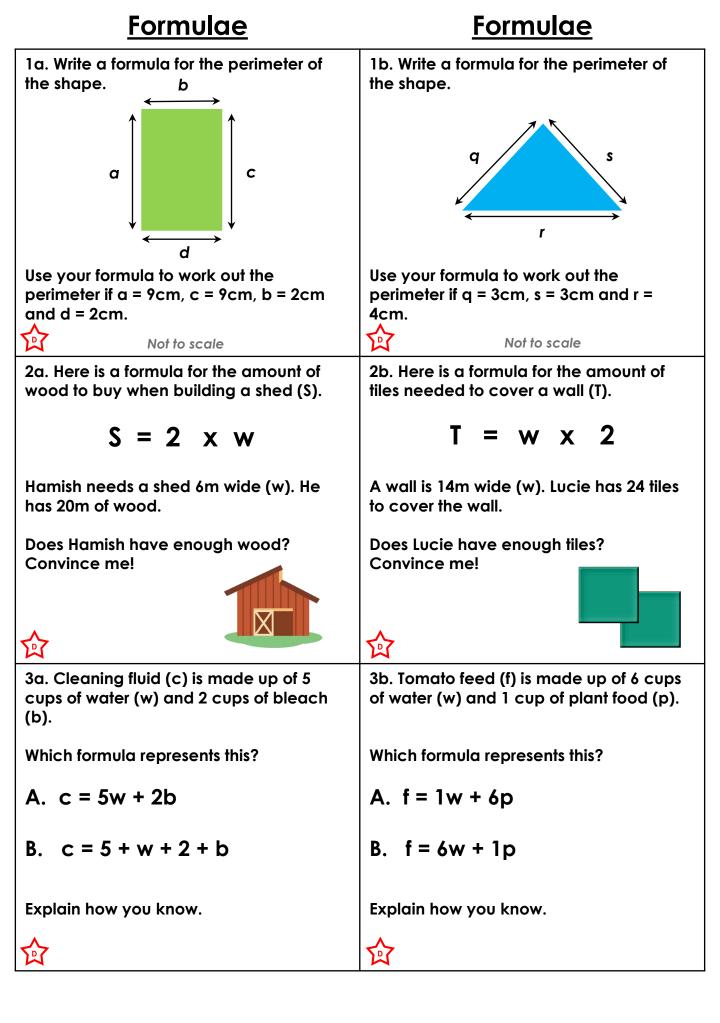
Week 16

Wednesday 8th July 2020

Year 5 Using Formulae - Reasoning and Problem Solving

*As Algebra is mainly a year 6 objective, you only have to complete **D** and **E**.

You can review how to use a formula using this link: https://www.youtube.com/watch?v=MMjI_c2EJU0



<u>Formulae</u>	<u>Formulae</u>
4a. Write a formula for the perimeter of the shape.	4b. Write a formula for the area of the shape. t
$b \qquad \qquad$	Use your formula to work out the area if $s = 9m, t = 6m$ and $v = t$.
Not to scale	Not to scale
5a. Here is a formula for the amount of paint needed (P) to paint a wall.	5b. Here is a formula for the amount of pet food (F) needed over 2 months.
P = w x 50ml	F = w x m
A wall is 13m wide (w). Deni has 650ml of paint. Does Deni have enough paint? Convince me!	A puppy weighs 6kg (w) and is 8 months old (m). His owner plans to feed him 40kg of food over the next 2 months. Does his own have enough pet food? Convince me!
6a. The formula for calculating speed (s) is distance (d) divided by time (t).	6b. The formula for calculating the area of a triangle (a) is base (b) multiplied by height (h), divided by 2.
Which two formulae represent this?	Which two formulae represent this?
A. $s = d \div t$	A. $a = 2 \div b \times h$
B. $s = t \div d$	B. a = (b x h) ÷ 2
C. $s = \frac{d}{t}$	C. $a = \frac{(b \times h)}{2}$
Explain how you know.	Explain how you know.
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