

# Maths Homework - Year 3 (Due Wednesday 11<sup>th</sup> March)

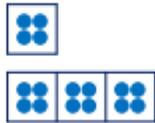
This week we have been looking at scaling

## Challenge. 1

1. Which of these calculations cannot be solved using the bar model below?

A.  $2 \times ? = 8$

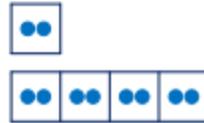
B.  $4 \times ? = 12$



2. Susan is learning about scaling numbers.



I think 10 is 4 times as many as 2.



Is Susan correct?



3. Abby and Luca are discussing the bar model below.



This bar model shows that there are twice as many children in the park than dogs.

This bar model shows that there are 4 times as many children in the park than dogs.



Dogs



Children



Who is correct? Explain your reasoning.



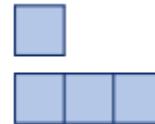
## Challenge. 2

4. Which of these calculations cannot be solved using the bar model below?

A.  $3 \times ? = 9$

B.  $6 \times ? = 18$

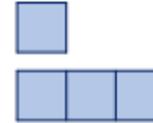
C.  $5 \times ? = 20$



5. Greg is learning about scaling numbers.



I think 15 is 3 times as many as 5.



Is Greg correct?

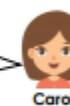


6. Mark and Carol are discussing the bar model below.



This bar model shows there are 6 oranges and 3 times as many apples, which is 12.

This bar model shows that there are 6 oranges and 5 times as many apples, which is 30.



Oranges



Apples



Who is correct? Explain your reasoning.



## Challenge. 3

7. Complete the number sentences so B is the odd one out.

A.  $5 \times ? = 20$

B.  $\square \times ? = \square$

C.  $\square \times ? = \square$



8. Peter is thinking about how to scale numbers.



I think that if a number is being scaled by 4, you always multiply the number by 4.

Is Peter correct? Give 3 examples.



9. Doug and Carter are both discussing the number 48.



96 is 12 times as many as 8.

96 is 9 times as many as 8.



Who is correct? Draw bar models to prove your answer.

