

Show your working out for each of the questions. Remember, bar models are helpful when solving scaling problems.

- 1) Kiran draws a bar model to compare the lengths of two different animals' tails.



Complete the missing information:

The rat's tail is _____ times longer than the tail of the harvest mouse.

The harvest mouse's tail is 6cm long.

_____ × _____ = _____

The rat's tail is _____ long.



- 2) A yellow butterfly's wingspan is 4cm. A blue butterfly's wingspan is 5 times as big.

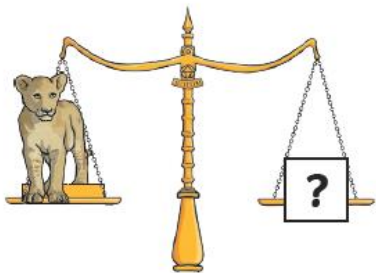
Draw a bar model to represent both wingspans.

Write a calculation to find the wingspan of the blue butterfly.

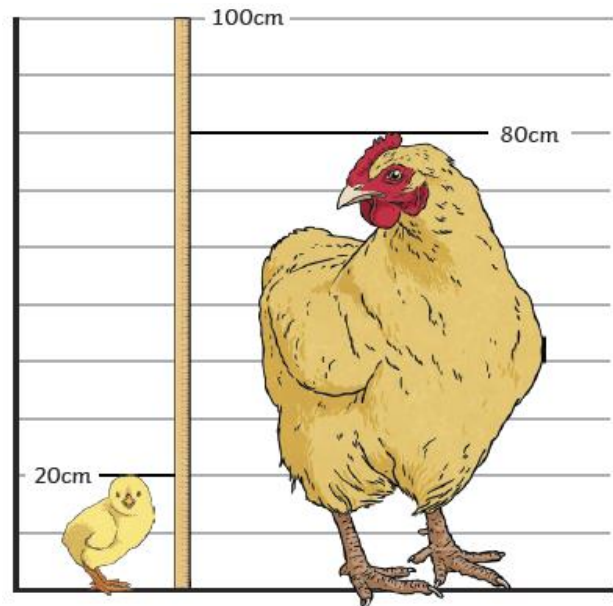
- 3) Kat measured the mass of a lion cub.



Two months later, the lion cub weighed 8 times as much.



How many kilogram weights would Kat need to balance the mass of the tiger cub now?



Michele says, "The adult chicken is 3 times as tall as the chick because you need 3 more lots of 20cm to make 80cm."

Do you agree with Michele? Explain your reasons.