

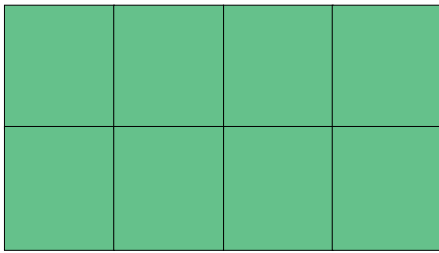
At the pet shop there are an equal number of rabbits in hutches. Here are the current number of rabbits and hutches:



a) How many rabbits in one hutch?

b) $\frac{1}{6} = 4$ $\frac{2}{6} =$ _____ $\frac{3}{6} =$ _____ $\frac{4}{6} =$ _____
 $\frac{5}{6} =$ _____ $\frac{6}{6}$ or 1 whole = _____

- 1) The pet shop has 40 mice which are kept in 8 cages, each holding the same number.



Complete the following using the model above to help.

$\frac{1}{8} =$ _____ $\frac{2}{8} =$ _____ $\frac{4}{8} =$ _____ $\frac{5}{8} =$ _____ $\frac{7}{8} =$ _____ $\frac{8}{8} = 40$

- 2) The pet shop also has some guinea pigs. They put one sixth of them in one hutch. There are 4 in this hutch. How many guinea pigs does the pet shop have in total? Show how you worked out the answer.

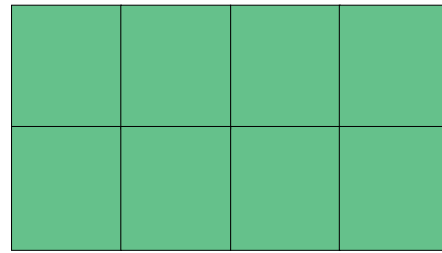
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- 1) There are 70 goldfish in a tank. Harjot wants to move $\frac{7}{10}$ of them to another tank. This is how he thinks he should calculate how many fish to move.



First I need to divide the number of goldfish by the numerator (7) and then multiply this by the denominator (10).



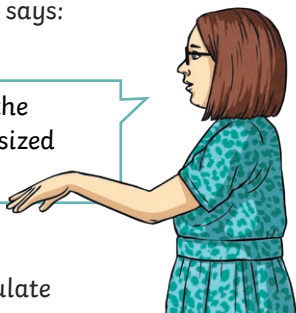
What mistake has Harjot made? Explain how he should calculate the answer.

- 2) There are 40 fish in another a fish tank. 15 of them are angel fish. $\frac{2}{5}$ are guppies. The rest are zebra fish. Harjot says there are more guppies than any other fish. Is he right? Explain how you know.

- 3) The pet shop buys food in large and medium bags. Large bags hold 56g and medium bags hold $\frac{5}{8}$ of a large bag.

Patsy, one of the assistants, says:

Today, I need 40g of food for the small mammals so a medium sized bag will be enough.



Is Patsy right?
Explain how he should calculate the answer.

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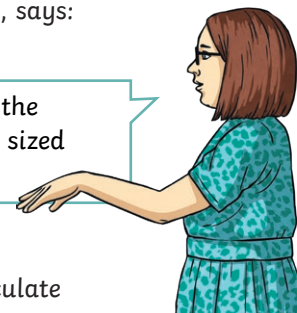
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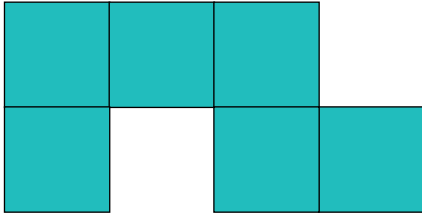
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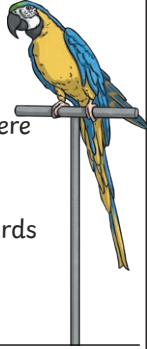
- 1) a) The pet shop manager is redesigning the rabbit hutches. He has started a plan that looks like this:



He has completed $\frac{2}{3}$ of the plan. Finish the plan.

- 2) There are 12 birds in total at the pet shop.
On Tuesday, $\frac{1}{4}$ of the birds were sold.
On Wednesday $\frac{2}{3}$ of the remaining birds were sold. How many birds were left?

What fraction of the original amount of birds is this?
Show how you worked out your answer.

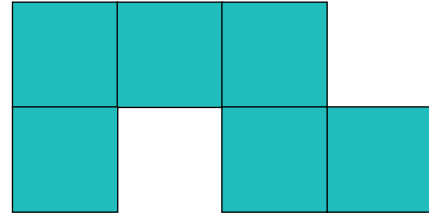


- 3) The pet shop has a range of small mammals: rabbits, mice and guinea pigs.
There are more than 20 animals but less than 40.

 $\frac{3}{4}$ of the animals are rabbits. $\frac{1}{3}$ of the remaining animals are mice and the rest are guinea pigs.
How many of each animal could there be? Show how you know.



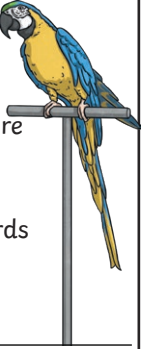
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