

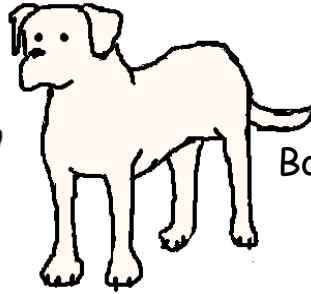
Dog Medication Maths

This resource developed for school years 5 to 6, assists in supporting students understanding of medications and the importance of accurately dosing. Students use fractions to work out medication dose rates for dogs. The download includes, Dog Medication Maths Sheet.

Resource Categories	Dog; Animal Needs and Care; Worksheet; Activity
Suitable Age Level	Year Five to Year Six
Desired Understandings	Students use fractions to work out the correct dosages of worming medications for dogs.
Resources Required	Be a Friend to Your Dog, Unit Three (see for accompanying lesson plan) Dog Medication Maths Sheet (supplied) Writing materials Workbook
Additional AMRRIC resources to support lesson content	Dog Food Maths

Worming tablet fractions

Tjutju weighs 10kg.



Boorooma weighs 40kg.

Boorooma is four times bigger than Tjutju

$$10\text{kg} \times 4 = 40\text{kg}$$

Tjutju is a quarter of Boorooma's size.

$$40\text{kg} \div 4 = 10\text{kg}$$

Its time to give them their worming medicine.

Dogs need the right amount of medicine for their size.

Too much and they could get sick.

Too little and the medicine won't work.

Boorooma gets 1 tablet.

Tjutju will need a quarter as much medicine

because he weighs only a quarter of Boorooma weight.

$$40\text{kg} \rightarrow 1 \text{ tablet}$$

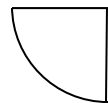
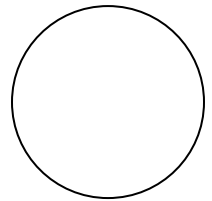
$$10\text{kg} \rightarrow ?$$

$$10\text{kg} \times 4 = 40\text{kg} \text{ and } 40\text{kg} \div 4 = 10\text{kg}$$

$$1 \text{ tablet} \div 4 = \frac{1}{4} \text{ tablet} \quad \text{so } 10\text{kg} \rightarrow \frac{1}{4} \text{ tablet}$$

If Boorooma needs one tablet,

then Tjutju needs a quarter of a tablet



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Jarntu is bigger than Tjutju but smaller than Boorooma.



Jarntu is twice as big as Tjutju. Tjutju weighs 10kg... $10\text{kg} \times 2 = 20\text{kg}$

...so Jarntu weighs 20kg

Boorooma is twice as big as Jarntu.

$20\text{kg} \times 2 = 40\text{kg}$

How much worming medicine will Jarntu need?

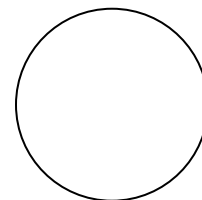
Boorooma needs 1 tablet.

Boorooma is twice as big as Jarntu,
so Jarntu is half as big as Boorooma.

Jarntu will need half as much medicine as Boorooma

$40\text{kg} \rightarrow 1 \text{ tablet}$

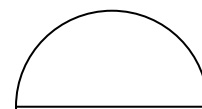
$20\text{kg} \rightarrow ?$



$40\text{kg} \div 2 = 20\text{kg}$

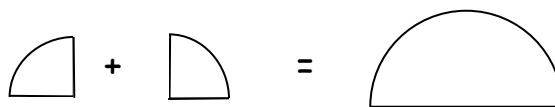
$1 \text{ tablet} \div 2 = \frac{1}{2} \text{ tablet}$

$20\text{kg} \rightarrow \frac{1}{2} \text{ tablet}$



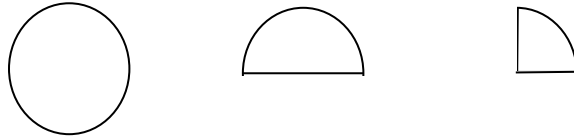
Does this sound right? Let's check another way.

Maliki needs twice as much as Boorooma: $2 \times \frac{1}{4} \text{ tablet} = \frac{1}{2} \text{ tablet}$

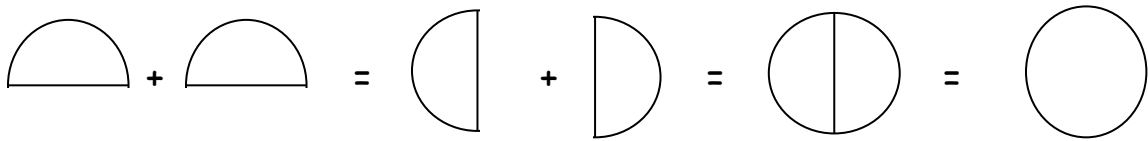


Goodooga > Maliki > Boorooma

1 tablet > $\frac{1}{2}$ tablet > $\frac{1}{4}$ tablet



Two $\frac{1}{2}$ tablets make a whole tablet



Two $\frac{1}{4}$ tablets make half a tablet



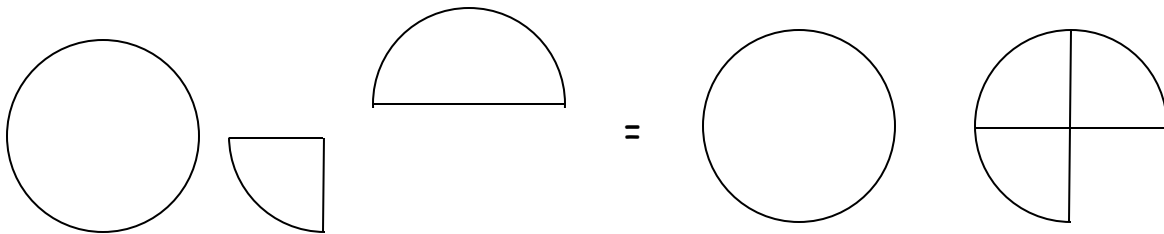
How many $\frac{1}{4}$ tablets make a whole tablet?



I want to buy enough worming medicine for all of the dogs:

1 tablet + $\frac{1}{4}$ of a tablet + $\frac{1}{2}$ a tablet

How many tablets do I buy?



1 tablet and 3 quarter tablets

$1\frac{3}{4}$ tablets

My mate asks me to buy a tablet for his dog too.

His dog is the same size as Jarntu.



How much medicine will his dog need? _____

Now how many tablets do I need to buy altogether? _____



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