

Green- Finding fractions of volume and capacity amounts

Finding Fractions of Amounts

Where the numerator is 1, divide the amount by the denominator.

Where the numerator is greater than 1, divide the amount by the denominator, then multiply the answer by the numerator.

$$\frac{1}{2}$$

The numerator is 1, so divide by 2.

$$\frac{3}{4}$$

The numerator is 3, so divide by 4 and multiply by 3.

1. Find the following (convert to ml first). Write your answers in ml.

a) $\frac{1}{4}$ of 8l = _____

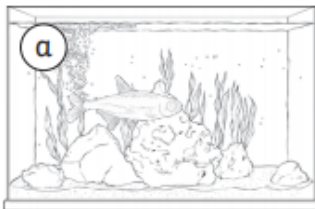
c) $\frac{1}{3}$ of 12l = _____

e) $\frac{2}{3}$ of 6l = _____

b) $\frac{1}{2}$ of 9l = _____

d) $\frac{3}{4}$ of 12l = _____

f) $\frac{3}{10}$ of 10l = _____



This tank, which has a capacity of 9l, has been $\frac{1}{3}$ filled with water. How much more water needs to be put into the tank to fill it? Write your answer in ml.

Orange- Finding fractions of volume and capacity amounts and then starting to solve problems including addition and subtraction

Find the following (convert to ml first). Write your answers in ml.

a) $\frac{1}{4}$ of 12l = _____

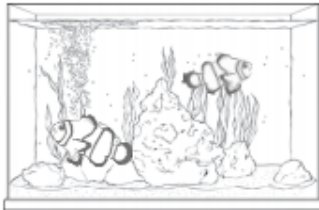
c) $\frac{1}{3}$ of 18l = _____

e) $\frac{2}{3}$ of 12l = _____

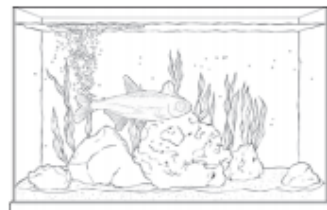
b) $\frac{1}{2}$ of 17l = _____

d) $\frac{3}{4}$ of 10l = _____

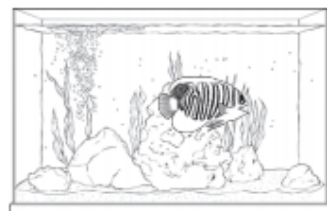
f) $\frac{7}{10}$ of 15l = _____



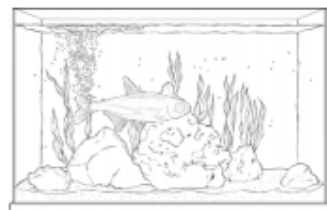
This tank, which has a capacity of 10l, has been half filled with water. Ceri puts another 2500ml into the tank. How much more water is needed to fill the tank? Write your answer in litres, using decimals.



This tank, which has a capacity of 12l, has been $\frac{3}{10}$ filled with water. How much more water needs to be put into the tank to fill it? Write your answer in litres, using decimals.



This tank, which has a capacity of 14l, has been $\frac{3}{4}$ filled with water. Ceri puts another 2750ml into the tank. How much more water is needed to fill the tank? Write your answer in millilitres.



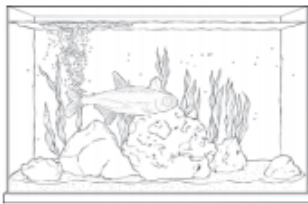
This tank, which has a capacity of 15l, has been $\frac{3}{4}$ filled with water. Jed puts another 1850ml into the tank. How much more water is needed to fill the tank? Write your answer in litres, using decimals.

Red- Finding fractions of volume and capacity amounts and then starting to solve problems including addition, subtraction, multiplication and division. (There are 2 pages for this challenge)

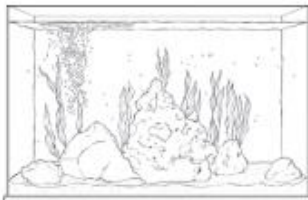
Find the following (convert to ml first). Write your answers in ml.

a) $\frac{1}{3}$ of 15l = _____ c) $\frac{2}{3}$ of 27l = _____ e) $\frac{4}{5}$ of 12l = _____

b) $\frac{1}{5}$ of 17l = _____ d) $\frac{3}{4}$ of 15l = _____ f) $\frac{5}{8}$ of 24l = _____



This tank, which has a capacity of 15l, has been $\frac{3}{4}$ filled with water. Jed puts another 1850ml into the tank. How much more water is needed to fill the tank? Write your answer in litres, using decimals.



It is estimated that, for every small fish, 500ml of water is needed. This tank has a capacity of 8l. How many fish could be put into this tank?

It is estimated that, for every small fish, 500ml of water is needed and, for every medium-sized fish, 750ml of water is needed.

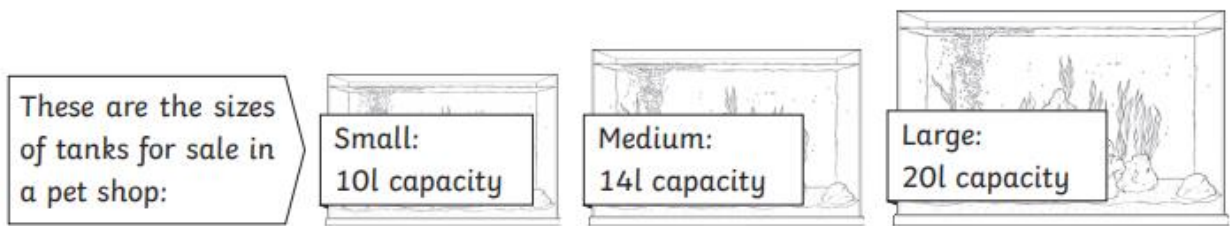
These are the sizes of tanks for sale in a pet shop:

Small: 10l capacity	Medium: 14l capacity	Large: 20l capacity
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a. I have 25 small fish. Which tanks have a big enough capacity to hold my fish?

b. Which tanks would be large enough to hold 20 medium-sized fish?

It is estimated that, for every small fish, 500ml of water is needed and, for every medium-sized fish, 750ml of water is needed.



- a. I have 10 small fish and 5 medium-sized fish. Which tanks have a big enough capacity to hold my fish?

- b. Which tanks would be large enough to hold 9 small fish and 12 medium-sized fish?

- c. Carla puts 15 small fish into the large tank. What is the maximum number of medium-sized fish that she could now add to the tank?