

Mathematics

Ratio Problems

Lesson 4 of 4

Downloadable Resource

Miss Kidd-Rossiter



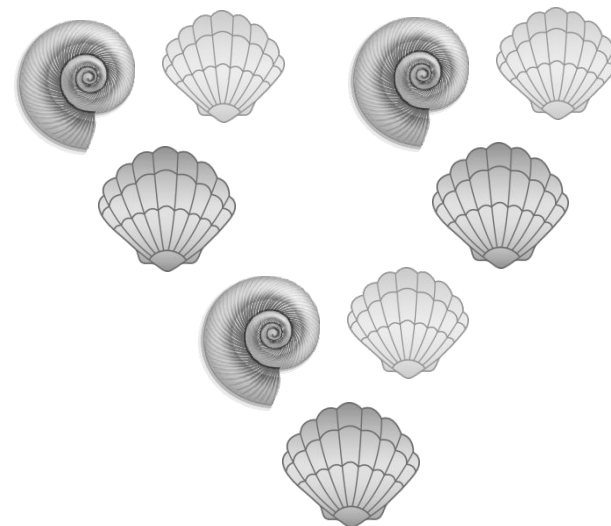
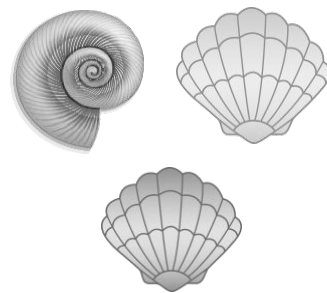
Try this

Zaki and Binh have collected some sea shells.

Which of these statements are correct?

Can you improve or add to any of the statements?

Can you write any statements of your own?



For every shell Zaki has, Binh has 3.

Zaki has $\frac{1}{4}$ of the total number of shells.

Zaki has $\frac{3}{9}$ of the shells.

Binh has 3 times as many shells as Zaki.

The ratio of Zaki to Binh's shells is
 $3 : 9$



Connect

The ratio of roses to violets is 5 : 4.

The ratio of violets to daisies is 3 : 2.

What is the ratio of roses to daisies?



Independent task

In an allotment:

the number of peas and the number of tomatoes grown are in the ratio 5 : 3

the number of tomatoes and the number of carrots grown are in the ratio 6 : 5

What is the ratio of peas grown : tomatoes grown : carrots grown?

If there are 50 carrots grown, how many peas are grown?



Connect

There are only yellow, blue and purple counters in a bag.

20% of the counters are yellow.

$\frac{9}{20}$ of the counters are blue.

Write down the ratio of yellow counters: blue counters : purple counters.



Independent task

1. Yasmin is 12 years old and Zaki is 13 years old.

They share some money in the ratio of their ages.

What percentage of the money does Zaki get?

2. Antoni is three times as old as Binh, who is four times as old as Cala.

Find the ratio of their ages.

What fraction of the total ages does Binh's age represent?



Independent task

3. £1440 is shared between Antoni, Binh, Cala and Xavier.

Cala and Xavier each get 150% the amount Antoni gets.

Antoni gets $\frac{2}{7}$ the amount that Binh gets.

Work out how much more money Binh gets than each other person.



Explore

A jar contains red, yellow and green jelly beans.

20% of the beans are green.

The ratio of red to yellow beans is 5 : 3.

Write down everything that you know, based on this information about the jar of jelly beans.

