RECALL

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Can you simplify any of the ratios? Why? Why can't you simplify the other ratios?

RECALL - ANSWERS





Can you simplify any of the ratios? Yes $6:2 \rightarrow 3:1$ Why? The numbers have a common factor. Why can't you simplify the other ratios? They don't have common factors.



LEARNING HABITS?



GUIDED PRACTICE

A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?



If I increased the flowrate to 350ml for every 4 seconds, how much more juice would I get out in a minute?



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		С	•	D			С	•	D			С	:	D	
		2	:	3			?	:	7			10	:	3	
		8	:	?			12	:	42			5	:	?	
		Ε	:	F			Ε	:	F			Ε	:	F	
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IP - ANSWERS

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		9	:	6				15	:	18		6	:	3.5	
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MO		1	:	4				1	•	5		7	:	35	
		8	:	32				3	•	15					

DD1	4) Amina plants some seeds.				
 I need 300g of flour for every 3 cakes I make. 	For every 3 seeds that Amina planted, only 2 seeds grew.				
I want to make 6 cakes.	12 seeds grew.				
How many grams of flour do I need?	How many did she plant?				
2) Chen is cooking some pasta.	5) 5 miles : 8 kilometres				
The recipe says that he needs 300g of pasta for 4 people.	The ISS (International Space Station) orbits the Earth at a height of 250				
How many grams does he need for 12 people?	What is the height of the ISS in kilometres?				
 3) A gardener plants tulip bulbs in a flower bed. She plants 3 red bulbs for every 4 white bulbs. She plants 60 red bulbs. How many white bulbs does she plant? 					



DIVE DEEPER 2

6) If Anila needs 320 squirrels to create 4 rows of squirrels, how many will she need to create 5 rows?

7) Mr Teed uses 26 Mentoes for every 2 cola bottles to make the <u>cola explode</u> (make sure that it is diet cola - less sugary mess).

How many Mentoes will he need if he has 7 bottles of cola to explode?

8) The ratio of two numbers is 4:5.

One of the numbers is 60.

There are two possible values for the other number.

What are the two possible values?

9) 20% of Megan's number is 64.

What is 50% of Megan's number?



Stefan has only 300ml of cream to make the chocolate ice-cream.

How much chocolate should he use?



DIVE DEEPER 3

11) To make <u>elephant's toothpaste</u>, you need: 100ml of hydrogen peroxide; to every 5g of yeast; to every 20ml of washing liquid.

If you have 120ml of washing liquid, how much of the other ingredients do I need?

12) For every mile I run, I have moved 1.6km.

If I run 8.5 miles, how far have I run?

13) Every 100g of brown bread contains 6g of fibre.

A loaf of bread weighs 800g and has 20 equal slices.

How much fibre is there in one slice?



DD3 ANSWERS

11) To make <u>elephan</u> every 5g of yeast; to	H ₂ O ₂	:	Yeast	;	Vashing Liquid	gen peroxide; to						
, , ,	100ml	:	5g	:	20ml							
If you have 120ml of	600ml	:	30g	•	120ml	ngredients do I						
neeur												
12) For every mile I	Miles	:	KMs									
· · ·		1	:	1.6								
If I run 8.5 miles, ha	ow far	8.5	:	13.6								
13) Every 100g of brown bread contains 6g of fibre.												
A loaf of bread weighs 800g and has 20 equal slices.												
How much fibre is th	nere in c	How much fibre is there in one slice?										

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fibre

6g

48g

fibre

48g

2.4g

BROWN SLICED

Stan Patronagantar Stan Anghantananan Stan Maganatananan 10100

Mass

100g

800g

Slices

20

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SELF-ASSESSMENT

- Some will even use unitary ratios effectively with multiple steps
- Some will begin to use unitary ratios
- Most will be able to multiply or divide ratios to give corresponding values
- All will multiply ratios to find answers