

Spicy & Extra Hot

Year 6 Maths Homework

Task: to solve ratio problems

1. Tom and his group prepared a picnic.
Each person at the picnic had:
4 sandwiches, **2** pieces of fruit and **1** packet of crisps.
The children packed **56** sandwiches.
How many pieces of fruit did they pack?
2. Molly makes a fruit salad using bananas, oranges and grapes.
For every **1** banana, she uses **9** grapes and **2** oranges.
Molly used **60** pieces of fruit.
How many grapes does she use?
3. Here are the ingredients needed for a pasta sauce:
 - 250g tomatoes
 - 110g onions
 - 75g mushroomsJay makes the pasta sauce using **0.75 Kg** of tomatoes.
 - a) **How many grams of onions should he use?**
 - b) **How many grams of mushrooms should he use?**
 - c) **How many grams of onions and mushrooms should he use if he makes pasta sauce using 1.250 Kg of tomatoes?**
4. If Jay used 440g of onions, **how many grams of tomatoes and mushrooms did he use?**
5. Orange paint is made by mixing red and yellow paint.
A ratio of **5** tins of yellow paint for every **3** tins of red paint is used to make **8** tins of orange paint.
Sam makes **56** tins of orange paint.
How many tins of yellow and red paint did he use?

6. Here is a recipe that makes two fruit smoothies:

- 10 strawberries
- $\frac{1}{2}$ litre of orange juice
- 250ml yogurt
- 1 banana

Stephanie uses the recipe to make smoothies.
She used **0.75 litres** of **yogurt**.

- a) **How many strawberries does she use?**
- b) **How much of each ingredient would she need to make 3 smoothies?**

7. Amir uses the same smoothie recipe.
He wants to make 5 smoothies.
He already has **250 ml** of orange juice.

How many **more** millilitres of orange juice does he need to make **5 smoothies**?

8. In a class the ratio of **boys to girls** is **8:5**
There are **16 boys**.
How many children are there in the class?
9. At the cricket club, there are 6 times as many right-handed players as left-handed players.
There are 42 players at the cricket club.
How many left-handed players are there at the cricket club?
10. There are 6 times as many children as adults on the school trip.
There are 60 more children than adults on the school trip.
How many adults are there on the school trip?

To be handed in by Thursday 7th May