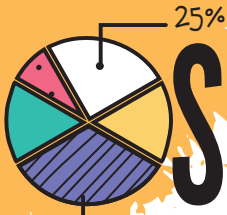
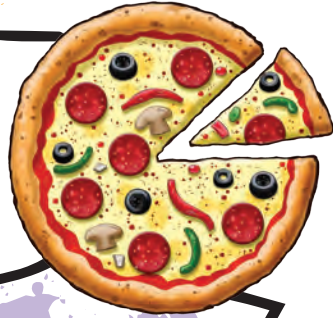


RATIOS



A ratio is a way to compare two or more quantities. It tells us how much of one thing there is, compared to another. For example, if you are making fruit juice and mix 2 cups of orange juice with 3 cups of water, the ratio of orange juice to water is 2:3.

WORK OUT THESE RATIOS.



PIZZA PARTY RATIO

At a pizza party, there are 18 cheese pizzas and 12 pepperoni pizzas.

- A What is the ratio of cheese to pepperoni pizzas?
- B If the same ratio is kept, how many cheese pizzas would there be if there were 20 pepperoni pizzas?

PICS ON SOCIAL MEDIA

Alex posts 15 landscape photos and 10 portrait photos on his photography page.

- A What is the ratio of landscape to portrait photos?
- B If he wants to maintain the same ratio but increase his total posts to 75, how many more of each type should he post?



MUSIC PLAYLIST MIX

Jake's playlist has 40 pop songs, 25 rock songs, and 15 rap songs.

- A What is the ratio of pop to rock songs?
- B What is the ratio of rap to total songs?
- C If he adds 20 more pop songs while keeping the other numbers the same, will the ratio of pop to total songs change?



VIDEO GAME WINS

Jake plays a video game and wins 12 out of 20 games.

- A What is the ratio of wins to total games played?
- B If he continues at this win rate, how many games will he win out of 60?



SMOOTHIE INGREDIENTS

A smoothie recipe calls for 4 cups of strawberries, 2 cups of yoghurt and 6 cups of milk.

- A What is the ratio of strawberries to yoghurt to milk?
- B If you double the recipe, what will the new ratio be?

STOP, SCAN & STUDY!



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WHY ARE RATIOS USEFUL?

- **Cooking & recipes:** If a cake recipe says to use 2 cups of flour for every 1 cup of sugar (2:1), you can double or halve the recipe and keep it the same.
- **Maps & scale drawings:** A map might use a scale of 1:1 000, meaning 1 cm on the map represents 1000 cm in real life.
- **Sports & statistics:** A football team winning 3 games and losing 2 has a win-to-loss ratio of 3:2.

Platinum Mathematics

Learner's Book B



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