

# Orange juice mixture

This task is about the different rates of orange drink powder per volume of water.

Janice was making some orange drink. She made Mixture X by adding 4 tablespoons of orange powder to 2 litres of water, and Mixture Y by adding 6 tablespoons of orange powder to 3 litres of water.



Mixture X



Mixture Y

a) Which of these statements is **true** about Janice's drink mixtures?

- (A) Mixture X had a stronger flavour than Mixture Y.
- (B) Mixtures X and Y had the same strength of flavour.
- (C) Mixture Y had a stronger flavour than Mixture X.
- (D) It is impossible to tell from the information given.

Janice wanted to make a new mixture with the same strength of flavour as Mixture X.

If she used 8 litres of water, how many tablespoons of orange powder would she need?

b)

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Janice made another new mixture by adding 5 tablespoons of orange powder to every 2 litres of water.

c) How many tablespoons of orange powder would she need for 12 litres of water?

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