

Mathematics

Inverse Proportion

Downloadable resource

Dr Rim Saada

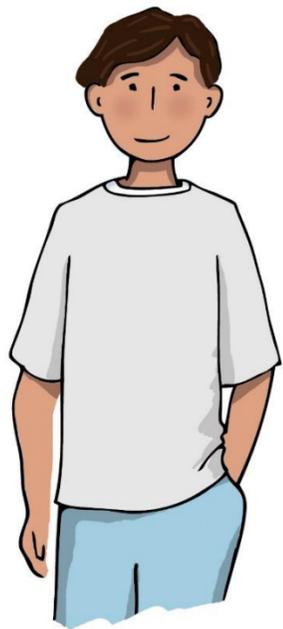


Try this

It takes 24 minutes for Antoni to tidy Miss Jones' classroom on his own.

It takes 12 minutes for Antoni and Binh to tidy the classroom.

It takes 8 minutes for Antoni, Binh and Zaki to tidy the classroom.



How long do you think it will take for Antoni, Binh, Zaki and Yasmin to tidy the classroom?



Independent task

1) Decide whether the scenarios below represent direct or inverse proportion:

	Direct	Inverse
The cost of apples and the quantity of apples.		
The speed travelled and the time taken.		
The time it takes to build a house compared with the number of builders all working at the same rate.		
The circumference of a circle and its diameter.		

2) The Beta construction company is building an extension. Three builders take 15 days to complete a project.

- a) How many days would it take one builder?
- b) How long would the project take to complete if there were six builders?



Explore

Direct or inverse proportion?

x	3	5	6	13
y	9	15	18	39
xy				
y/x				

x	2	3	5	6
y	30	20	12	10
xy				
y/x				

x	1	10	100	1000
y	5	0.5	0.05	0.005
xy				
y/x				

