

Percentage Passes

ACTIVITY

Hine and Josh are in two different classes. They compare their test results.

Subject	Hine	Josh
English	$\frac{17}{20}$	$\frac{24}{30}$
Maths	$\frac{45}{50}$	$\frac{32}{40}$
Science	$\frac{19}{25}$	$\frac{17}{20}$
Social studies	$\frac{27}{30}$	$\frac{18}{20}$



- In which subjects did Hine get a higher mark than Josh?
 - In which subject did Josh get a higher mark than Hine?
 - In which subject did they get the same mark?
 - Show how you worked out your answers.

You may find it useful to convert the marks into percentages.

- What can you say about Hine's mean percentage score compared to Josh's?

You could round each of the mean percentage scores to a whole number.

The mean is sometimes called the average.

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Josh

Based on percentages, if I'd got two more marks in science, I'd have had a mean of 86%.

Well, yes, but if I'd got one more mark in science, we'd both have had a mean of 86%!



Hine

- Is Josh right? Explain your answer.
- Explain how Hine might justify her statement.