Year 10 Mathematics Learning Journey: Unit 11 - Percentages and Interest

and ratio In a school, the ratio of boys to

girls is 2:3. 10% of the boys wear glasses. What fraction of the students in the school are boys who wear glasses?

Step 10: Problems with FDP

Step 9 (H): Iterative processes

Given u₁ and a rule, how many times do I need to iterate in order to find the value of u_5 ?

Step 8: Growth and decay

If you reduced a number by 50% twice in a row, why is the answer not 0?

Step 7 (R): Find the original value

If we know 40% of a number, what else can we find?

Step 4 (R): Express as a percentage

The ratio of aluminium to other metals is 2:3. What percentage of the bar is aluminium?

Step 5: Simple and compound interest

What is the difference between simple and compound interest? Which one is most common in real life?

Step 6: Repeated percentage change

Why is it that increasing a quantity by 10% twice in a row is not the same as increasing the quantity by 20%?

Step 3 (R): Increase / decrease by a percentage

Which multiplier increases a number by 3.5%?

Step 2 (R): Percentages of amounts

Find three ways to work out 85% of 90.

Step 1 (R): Convert and compare FDP

How can you convert any decimal to a fraction?



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