Year 9 Mathematics Learning Journey: Unit 7 - Numbers

Step 10 (R): Standard Form

Explain why 3 x 10⁴ $> 4 \times 10^3$

Step 9: Problems with **Fractions**

Lunchtime is $\frac{3}{4}$ hour. Eva spends $\frac{2}{3}$ of this playing football. What fraction of an hour does Eva spend playing football?

Step 8 (R): Multiply and divide fractions

Show that $\frac{3}{8} \div \frac{7}{12} = \frac{9}{14}$

Steps 7 (R): Add and subtract fractions

Find the sum of $5\frac{3}{4}$ and

Step 5: Problems with decimals

Why do 292 ÷ 0.4 and 2920 ÷ 4 have the same answer?

Step 6 (R): HCF and LCM

"The highest common factor of 60 and 80 is 10". Do you agree?

Step 4: Problems with integers

360 students are going on a school trip. For every 15 students, there must be 1 adult. How many 52-seat buses are needed for the trip?

Step 3 (R): Directed Number

Explain why x² is never negative.

Step 2 (H): Understand and use surds

Simplify the surd $\sqrt{18}$

Step 1: Integers, real and rational numbers

Are recurring decimals rational?



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