Year 8 Mathematics Learning Journey: Unit 12 - Fractions and Percentages

| Step $13(\mathrm{H}):$ Complex |
| :---: |
| percentages |$|$| After a $18 \%$ pay rise, Dora’s |
| :---: |
| salary is $£ 38350$. What was |
| her original salary? |


| Step $11 \& 12(H):$ Find original <br> more and less than $100 \%$ |
| :---: |
| Whitney flips a coin and gets <br> heads $45 \%$ of the time. She gets <br> heads 54 times. How many times <br> did she flip the coin? |


| Step 10: Choose <br> appropriate methods |  |
| :---: | :---: |
| What percentage of $£ 70$ <br> is $£ 30$ ? | Step 9: Work with <br> percentage change |
|  | Alex invests $£ 60000$ in a <br> saver account that pays <br> $2.5 \%$ interest per year. <br> How much does he earn <br> in interest in 5 years? |


| Step 5: Percentage |
| :---: |
| decrease: multipliers |

What is the multiplier for a | Step 6: Increase and |
| :---: |
| decrease: multipliers |
| What is the |
| percentage increase if |
| you double a number? |

| Step 7: Express as a |
| :---: |
| percentage (non-calculator) |
| A bag contains green and red |
| counters in the ratio 12:13: |
| What percentage of the |
| counters are green? |

Step 8: Express as a percentage (calculator)
Is it possible to work out
70 as a percentage of 65 ? $10 \%$ reduction followed by another $10 \%$ reduction?
Step 4: Convert decimals
and percentages above and below $100 \%$

Is it possible to have a percentage above 100\%? If so, how?

| Step 3 (R): FDP with a |
| :---: |
| calculator |$|$| What keys could you |
| :---: |
| press to find $23 \%$ of 45 ? | press to find $23 \%$ of 45 ?

$\$$ Achievement 1 resilience


