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Find the Co-efficient of  $x$  in the expansion of  $(x + \frac{1}{2x})^5$

$$(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$$

|   |   |    |    |   |   |   |
|---|---|----|----|---|---|---|
|   |   |    | 1  |   |   |   |
|   |   | 1  |    | 1 |   |   |
|   | 1 |    | 2  |   | 1 |   |
| 1 |   | 3  |    | 3 |   | 1 |
| 1 | 4 |    | 6  |   | 4 | 1 |
| 1 | 5 | 10 | 10 | 5 | 1 |   |

No Need to expand ALL  $(x + \frac{1}{2x})^5$  but sometimes it helps to see the wood from the trees!

$$(x + \frac{1}{2x})^5 = x^5 + 5x^4(\frac{1}{2x}) + 10x^3(\frac{1}{2x})^2 + 10x^2(\frac{1}{2x})^3 + 5x(\frac{1}{2x})^4 + (\frac{1}{2x})^5$$

↓  
This ONE will give  $x^1$  after cancelling

The TERM in  $x$  is

$$10x^3 \left(\frac{1}{2x}\right)^2$$

Which cancels  $10x^3 \frac{1}{4x^2}$  to  $\frac{10x}{4}$  or  $\frac{5x}{2}$

So the COEFFICIENT is  $\frac{5}{2}$

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