Factor, solve or simplify each expression in Table I. Then, find the corresponding answer in Table II. This will give you a correspondence between a letter and a number. Use this to reveal the mystery phrase.

Mystery phrase

" _ _ _ _ , _ _ _ , _ _ _ _ , _ _ _ _ , _ _ _ , _ _ _ ; 1 2 6 7 4 9 6 5 10 1 2 8 1 4 9 3 11 12 9 7

Table

Table I					
Table I O Simplify $(2x^3 - 5)^2$	N Factor $3y^3-27y$	E Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \cdot \left(\frac{1}{3}x^3\right)^2$	A Factor $x^2 + 8x + 16$		
T Factor $6x^2 + 11x - 10$	Solve $1 - 6x = -9x^2$	B* Solve $x^3 + 2x^2 = 9x + 18$	M Simplify $\left(\frac{1}{2}x^2y^3\right)^3 \div \left(\frac{1}{3}x^4\right)^2$		
Factor $x^6 - 27$	H Factor $6x^2 - 5x + 1$	S Solve $x^2 - 2x = 0$	G Factor $x^9 + 27y^3$		

Table II

	Table II					
	1	4	5	2		
	(3x-2)(2x+5)	3, -3, -2	3y(y+3)(y-3)	(2x-1)(3x-1)		
	11	3	9	6		
	$4x^6 - 20x^3 + 25$	1	$x^{12}y^9$	$(x^2-3)(x^4+3x^2)$		
		3	72	+ 9)		
	7	10	8	12		
x	x = 0 or x = 2	$(x^3 + 3y)(x^6 - 3x^3y)$	$(x+4)^2$	<u>9y</u> 9		
		$+9y^2$)		$8x^2$		

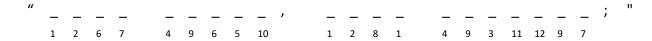
Some extra challenge factoring:
1. Factor:
$$16x^2 + 2x + \frac{1}{16}$$

2. Factor:
$$2xy - 4x^2 - \frac{y^2}{4}$$

3. Factor:
$$-x - 4 + \frac{x^2}{2}$$

Factor, solve or simplify each expression in Table I. Then, find the corresponding answer in Table II. This will give you a correspondence between a letter and a number. Use this to reveal the mystery phrase.

Mystery phrase



Pratītyasamutpāda (Sanskrit: प्रतीत्यसम्त्पाद), commonly translated as dependent origination.

"This being, that becomes; from the arising of this, that arises. This not being, that does not become; from the ceasing of this, that ceases." Majjhima Nikaya

Table I

TUDIC I			
O → 11	N → 5	E → 9	A → 8
simplify	factor	Simplify	factor
$(2x^3-5)^2$	$3y^3 - 27y$	$\left(\frac{1}{2}x^2y^3\right)^3 \cdot \left(\frac{1}{3}x^3\right)^2$	$x^2 + 8x + 16$
T→ 1	C → 3	B → 4	M → 12
factor	Solve	Solve	Simplify
$6x^2 + 11x - 10$	$1 - 6x = -9x^2$	$x^3 + 2x^2 = 9x + 18$	$\left(\frac{1}{2}x^2y^3\right)^3 \div \left(\frac{1}{3}x^4\right)^2$
l → 6	H → 2	S → 7	G → 10
factor	factor	factor	factor
$x^6 - 27$	$6x^2 - 5x + 1$	$x^2 - 2x = 0$	$x^9 + 27y^3$

Table II

Table II					
1	4	5	2		
(3x-2)(2x+5)	3, -3, -2	3y(y+3)(y-3)	(2x-1)(3x-1)		
11	3	9	6		
$4x^6 - 20x^3 + 25$	1	$x^{12}y^9$	$(x^2-3)(x^4+3x^2)$		
	3	72	+ 9)		
7	10	8	12		
x = 0 or x = 2	$(x^3 + 3y)(x^6 - 3x^3y)$	$(x + 4)^2$	9y ⁹		
	$+9y^2$)		$8x^2$		