DCA CLASSES

## CLASS – VIII MATHEMATICS – CHAPTER 09 ALGEBRAIC EXPRESSIONS AND IDENTITIES

Name:			Date:
<b>01</b> . Which of the fo	llowing is an expressio	n?	
(a). 4x + 7	(b). 3	(c). ½	(d). 30
<b>02</b> . Which of the fo	llowing is a binomial?		
(a). 3x	(b). 2x + 7	(c). 4x + y +2	(d). 7 – 3x + 4
<b>03</b> . Which of the fo	llowing is like term as	7ху?	
(a). 9x	(b). 9y	(c). 9xy	(d). 9
<b>04</b> . Add: 7xy + 5yz –	- 3zx, 4yz + 9zx – 4y, –3	3xz + 5x – 2xy.	
(a). 5xy+9yz+2z	x+5x-4y	(b). 5xy + 9yz +3zx	+ 4γ
(c). 5xy + <mark>3</mark> zx + !	5x – 4y	(d). 5xy+9yz+3zx+5	x–4y
<b>05</b> . Which of the fo	llowing is an expressio	n?	and the second sec
(a). 3x – 2	(b). 2	(c). ½	(d). 3
<b>06</b> . Which of <mark>the fo</mark>	llowing is a monomial	?	
(a). 2x + 7	(b). 3x	(c). 4x + y +2	(d). 7 – 3x + 4
<b>07</b> . Which of the fo	llowing is like term as a	4a²b?	
(a). 9a	(b). 9b	(c). 9a²b	(d). 9a <sup>2</sup>
<b>08</b> . Subtract 7 <mark>x – 3</mark> x	x <sup>2</sup> from 4x + 8x <sup>2</sup> .		
(a). — 3x	(b). 11x <sup>2</sup>	(c). 11x <sup>2</sup> – 5x	(d). 11x <sup>2</sup> – 3x
<b>09</b> . Which of the fo	llowing is an expressio	n?	
(a). 9ab + <mark>7</mark>	(b). 7	(c). ¼	(d). 9
	llowing is a trinomial?		
. ,	(b). 7 – 3x + 4y		(d). 3x
<b>11</b> . Which of the fo	llowing is like term as		_
	(b). 7y	(c). 7xy <sup>2</sup>	(d). 7y <sup>2</sup>
•	4y + 5z) from $4x (2x - 2x)$		2
	(b). 25xz	(c). 5x <sup>2</sup> + 25xy	(d). 5x <sup>2</sup> + 25xz
<b>13</b> . (x – a (x + a) =?	2	2	
(a). $x^2 - a^2$		(c). x + a <sup>2</sup>	(d). $x^2 + a^2$
	llowing is a trinomial?		
	(b). 3a + 4b + 5		(d). 3x
<b>15</b> . Which of the fo	llowing is like term as	7x²y²?	

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(a). 7x	(b). 7y	(c). 13x <sup>2</sup> y <sup>2</sup>	(d). 7y <sup>2</sup>		
<b>16</b> . 501 × 502 =?					
(a). 251500	(b). 250000	(c). 150000	(d). 251502		
<b>17</b> . Which of the following is like term as 6xyz?					
(a). 7xy	(b). 7yz	(c). 7xyz	(d). 7xz		
<b>18</b> . 95 × 103 =?		<u> </u>			
(a). 9700	(b). 9600	(c). 9000	(d). 9785		
Q01. Using suitable id Q02. Using identity (a) $(x - a) (x + a)$ Q03. Simplify: (a) $(xy + yz)^2 - (x)$ (c) $(1.5x - 4y) (1)$ Q04. Simplify $(xy + yz)^2$ Q05. Verify the identi Q06. Simplify the exp Q07. Simplify: $(4m + 3)^2$ Q08. Show that $(a - b)^2$ Q09. Find the LCM of Q10. Add the followi (a) $a^2 + 3ab - bac(b) x^3 - x^2 y - xyQ11. Subtract:(a) x^4 + 3x^3y^3 + 3y^2(b) x^3y^2 + 3x^2y^2Q12. Find the values(a) m^3 + n^3 + p^3Q13. (a) What should(b) What should(c) How much is(c) How much is$	dentities find $(xy + x) = x^2 - a^2$ find $6^2 - xy - yz)^2$ 1.5x + 4y +3) - 4.5x (x) - yz)^2 1.5x + 4y +3) - 4.5x (x) - 2x^2y^2z. Find the ity (x + a) (x + b) = pression x(2x - 1) + (x) - 3m + 1 (x) -	(b) (x + y) (2x-3y + z) - (x + 12y) (b) $(x + y) (2x-3y + z) - (x + 12y)$ (c) $(x + 12y)$ (	(b) $(x^{3} - 2x^{2}y + 3xy^{2} + 4y^{3})$ (c) $297 \times 303$ 2x - 3y)z and $z = 2$ . b = 3 and $x = 4$ . (b) $(-4^{5}, -4^{10}, 2^{5})$ (c) $297 \times 303$ $(x^{3} - 2x^{2}y + 3xy^{2} + 4y^{3})$ $y^{2} - 51y + 68)$ ? $y^{2} - 51y + 68)$ ? $y^{2} - 90)$ ?		
<b>Q15.</b> Subtract the sum of (12ab –10b <sup>2</sup> –18a <sup>2</sup> ) and (9ab + 12b <sup>2</sup> + 14a <sup>2</sup> ) from the sum of (ab + 2b <sup>2</sup> ) & (3b <sup>2</sup> – a <sup>2</sup> ).					

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