26 JUNE SECONDARY SCHOOL
Center of Excellence
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CHAPTER 2 : ALGEBRA 2 (PART ONE)

Name : _____ Class : _____ NO : _____

Part one : Circle the correct answer . for each question there is only one correct answer

1) Simplifying 8x – 2x is

A. 6 **B.** 6x **C.** 10x **D.**they are unlike terms , so can not be simplified

2) Simplify $6y^2 + 3y^2$

A.They are unlike terms, so can not be simplified **B.** $3y^2$ **C.** $9y^4$ **D .** $9y^2$

3) Simplify $10x^2 + 5x – 3x^2 – 3x^2$

A. $7x^2 – 2x$ **B.** $9y^3 – 2y^2 + 13y$ **C.** $14y^4 – 2y^2 + 8y$ **D.** nothing

4) Simplify : $- 5y^3 + 4y^2 - 3y – 6y^3 – 3y^2 - 10y$

A. $– 11y^3 + 7y^2 + 7y$ **B.** $– 11y^3 + y^2 - 13y$ **C.** $– 11y^3 + 7y^2 + 7y$ **D.** $– 11y^3 + 7y^2 + 7y$

5) Simplify 7b – 3b + 4

A. 10b + 4 **B.** 8b **C.** 4b + 4 **D.** -4b + 4

6) Simplify 9x + x – 4x + 2x

A. 7x **B.** $x^2 + 5x$ **C.** 8X **D.** $–X^2 + 5X$

7) Simplify : 6a – 3a – a – 12

A. 3a – a – **12** **B.** 3a – **12** **C.** 2a – 12 **D.** 3a – 13

8) Simplify 8x – 3 + 4x – 3

A. 6 **B.** 6x **C.** 4x – 6 **D.** 12X – 6

9) Expand 8(y – 4)

A. 8y – 32 **B.** 8y – 12 **C.** 8y – 4 **D.** Y – 32

10) Simplify the expressions - 8 (3y + 5) – 5

A. 24y + 35 **B.** -24y – 80 **C.** – 24y **D.** – 24y – 45

ASSIGNMENT 2

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PART II STRUCTURE QUESTIONS

Do all the fallowing questions with the space provided .

1. Factorize these expressions.

a. $3y + 6$

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b. $X^2 + 4x + 5x + 20$

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c. $x^2 + 3x + 2$

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d. $x^2 + 5x + 6$

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2. Factorize these expressions by using difference of two squares

a. $p^2 - 36$

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b. $4x^2 - 9$

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3. Solve the following equations

a. $x + 8 = 12$

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b. $x^2 = 4$

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c. $\frac{4}{2} = \frac{24}{x}$

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d. $\sqrt{x} = 3$

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d. $2^x = 32$

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e. $2(x + 5) = 18$

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4. **Solve this Simultaneous Equation**

a. $x + y = 3$
$x - y = 1$

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Solve this Quadratic Equation

b. $x^2 + 6x + 8 = 0$

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ASSIGNMENT 2

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5. Simplify the fallowing algebraic fractions

a. $\frac{2}{x} + \frac{3}{4x}$

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b. $\frac{5}{(x+3)} + \frac{4}{(x+2)}$

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6. Multiply the fallowing algebraic fractions

a. $\frac{3x}{5x^3} \times \frac{20x}{9}$

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b. $\frac{x^2+5x+6}{2x} \times \frac{4}{2x+4}$

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7. Find the missing numbers

a. $\frac{2}{3} = \frac{\quad}{18}$

b. $\frac{3}{5} = \frac{12}{\quad}$

c. $\frac{1}{10} = \frac{\quad}{50}$

d. $\frac{5}{8} = \frac{25}{\quad}$

e. $\frac{18}{24} = \frac{18\div6}{24\div6} = \frac{3}{\quad}$

f. $\frac{15}{20} = \frac{15\div5}{20\div5} = \frac{\quad}{4}$

8. Solve the fallowing inequalities and show the solution on the number line

a. 3x – 2 > 1

b. 2X + 2 ≤ 6

ASSIGNMENT 2

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