

DELHI PUBLIC SCHOOL, MIYAPUR

SECTION-A

1. The factors of $6xy - 4y + 6 - 9x$

1 point

- ☐ (A) $(3x-2)(2y+3)$
- ☐ (B) $(3y+2)(2y+3)$
- ☐ (C) $(3x+2)(2y-3)$
- ☒ (D) $(3x-2)(2y-3)$

Clear selection

2. The quotient when $7x^2 + 14x$ divided by $x+2$

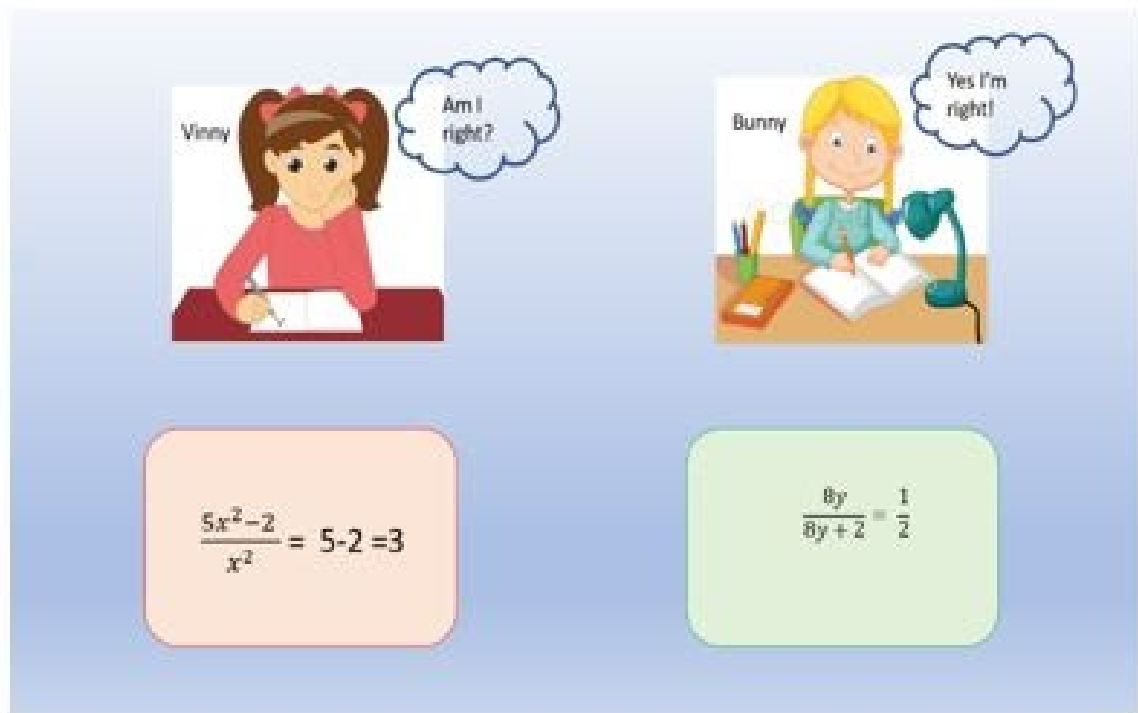
1 point

- ☒ (A) $7x$
- ☐ (B) $7x+14$
- ☐ (C) $14x$
- ☐ (D) none of these

Clear selection



3. While doing homework Vinny and Bunny simplified the given expressions 1 point
as shown in the figure. Who has done it correctly?



The illustration shows two children, Vinny and Bunny, sitting at desks and simplifying algebraic expressions. Vinny, on the left, is a girl with brown hair in pigtails, wearing a red shirt. She is looking at a thought bubble that says "Am I right?". Below her is a pink box containing the expression $\frac{5x^2-2}{x^2} = 5-2=3$. Bunny, on the right, is a girl with blonde hair in pigtails, wearing a blue shirt. She is looking at a thought bubble that says "Yes I'm right!". Below her is a green box containing the expression $\frac{8y}{8y+2} = \frac{1}{2}$.

- ☐ (A) Vinny
- ☐ (B) Bunny
- ☐ (C) Both are correct
- ☒ (D) Both are wrong

Clear selection

1 point

4. The HCF of the terms $7a^3b^2c$, $14a^2b^3c^2$ and $42ab^2c^3$ is

(A) 7

(B) $7abc$

(C) $7ab^2c$

(D) $42a^2b^2c^2$

☐ (A) Option a

☐ (B) Option b

☒ (C) Option c

☐ (D) Option d

Clear selection

1 point

5. To split the middle term of $x^2 - 11x - 80$ the most suitable pair of numbers is

☐ (A) 16, 5

☒ (B) -16, +5

☐ (C) 16, -5

☐ (D) -16, -5

Clear selection



Questions 6-8 are based on the following information:

DOUBLE DARK CHOCOLATE CHIP

Nutrition Facts

Serving Size: 1 Bar

Calories 290

Calories from Fat 190

*Percent Daily Values are based on a 2,000 calorie diet.

Amount Per Serving	% Daily Value*	Amount Per Serving	% Daily Value*
Total Fat 21g	32%	Total Carbohydrate 19g	6%
Saturated Fat 8g	40%	Dietary Fiber 14g	56%
Trans Fat 0g		Sugars 4g	
Cholesterol 0mg	0%	Protein 20g	40%
Sodium 250mg	10%		
Vitamin A 0%	• Vitamin C 0%	• Calcium 10%	• Iron 10%

INGREDIENTS: Egg Whites, Prebiotic Fiber (From Tapioca), Sunflower Seeds, Chocolate, Chocolate Chips (Sugar, Chocolate, Milkfat, Cocoa Butter, Soy Lecithin, Natural Flavors), Sunflower Lecithin, Red Palm Oil (Certified Sustainable), Purified Water, Cocoa Powder, Vanilla, Orange Pulp, Sucralose, Sea Salt.

CONTAINS: Eggs, Milk, Soy

Observe the Nutrition Chart for Double Dark Chocolate. Per day a person has to consume 2000 calories. Sudha bought a Double Dark Chocolate bar.

6. After eating a total bar, she realised that she consumed 40% of daily consumption of Saturated fat. How much more Saturated fat (in gr) can she consume that day to complete the nutrition.

1 point

- ☐ A) 20g
- ☒ B) 12g
- ☐ C) 6g
- ☐ D) 18g

Clear selection

7. For a heart healthy diet, you should always try to keep your sodium intake to about 2300 mg per day. After eating 2 chocolate bars, how much percentage of daily ideal quantity she consumed on that day. 1 point

- ☐ (A) 20.4%
- ☐ (B) 21.02%
- ☒ (C) 21.74%
- ☐ (D) we cannot say

Clear selection

8. If she ate 2 chocolate bars on that day, what is the required percentage of calories she needs more? 1 point

- ☐ (A) 39%
- ☐ (B) 58%
- ☒ (C) 71%
- ☐ (D) 29%

Clear selection

1 point

9. Area of a rectangle is $x^2+8x+15$, then the length of the rectangle is,

- ☐ (A) $x+3$
- ☐ (B) $x+8$
- ☐ (C) $x+15$
- ☒ (D) $x+5$

Clear selection



1 point

10. Which value of “ b ” would make $y^2 + by - 24$ factorable?

- ☐ (A) 12
- ☐ (B) 11
- ☐ (C) 5
- ☒ (D) 25

Clear selection

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