UNIT 21 Formulae  

CSEC Multiple Choice Questions

1. Bananas are sold at \( d \) cents per pound.
   The weight of 8 bananas is 5 pounds.
   What is the average cost of 1 banana?
   (A) \( \frac{5d}{8} \) cents
   (B) \( \frac{8d}{5} \) cents
   (C) \( 5d \) cents
   (D) \( 40d \) cents

2. If \( a = -3 \) and \( b = 2 \), then \( \frac{5a + 4b}{ab} = \)
   (A) \( \frac{-7}{6} \)
   (B) \( \frac{7}{6} \)
   (C) \( \frac{8}{6} \)
   (D) \( \frac{23}{6} \)

3. If \( x = 2 \) and \( y = -1 \), then \( \frac{3x - 5y}{xy} = \)
   (A) \( \frac{-11}{2} \)
   (B) \( \frac{-3}{4} \)
   (C) \( \frac{3}{4} \)
   (D) \( \frac{11}{2} \)
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4. If \( a \ast b = ab^2 - a^2 b \), then \( 2 \ast 3 = \)
   (A) 0
   (B) 1
   (C) 6
   (D) 24

5. \( -7 - (-3) = \)
   (A) -10
   (B) -4
   (C) 4
   (D) 10

6. A worker is paid a wage of $10 per hour and $15 per hour for overtime. For working 25 hours and 5 hours overtime, the worker's earnings are
   (A) $250
   (B) $275
   (C) $325
   (D) $450

7. \( -5 - (-2) = \)
   (A) -7
   (B) -3
   (C) 3
   (D) 7
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8. If \( p \times q = pq^2 \), then \( 2 \times 3 = \)
   
   (A) 6  
   (B) 12  
   (C) 18  
   (D) 36

9. Carl has $5 more than John. Tom has twice as much as Carl and John together. If John has \( x \) dollars, then Tom has
   
   (A) \$ \( (x + 10) \)  
   (B) \$ \( (2x + 5) \)  
   (C) \$ \( (2x + 10) \)  
   (D) \$ \( (4x + 10) \)

10. Seven times the product of two numbers, \( a \) and \( b \), may be written as
    
    (A) \( 7ab \)  
    (B) \( 7a + b \)  
    (C) \( 7a + 7b \)  
    (D) \( 49ab \)
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11. If \( m = -2 \) and \( p = 3 \), then \( \frac{4p - m}{mp} = \)

(A) \( \frac{-7}{3} \)

(B) \( \frac{-5}{3} \)

(C) \( \frac{5}{3} \)

(D) \( \frac{7}{3} \)

12. If \( \frac{1}{f} = \frac{1}{3} + \frac{1}{4} \), then \( f = \)

(A) \( \frac{7}{12} \)

(B) \( \frac{17}{12} \)

(C) \( \frac{12}{7} \)

(D) \( 7 \)
UNIT 21 Formulae

CSEC Multiple Choice Questions

ANSWERS

1. A
2. B
3. D
4. C
5. B
6. C
7. B
8. C
9. D
10. A
11. A
12. C