CHECKPOINT MATHEMATICS

APRIL 2019

PAPER 1 SOLUTION

1. $6 \times 3 + y = 23 \longrightarrow 18 + y = 23 \quad y = 23 - 18 \quad \therefore y = 5$

2. $3x - 6 = 15 \longrightarrow 3x = 15 + 6 \longrightarrow 3x = 21 \quad x = \frac{21}{3} \quad \therefore x = 7$

3. $500 \times 3 = 1500\ ml = 1.5\ ml$ (1000 *ml* = 1*l*)

4. 12 biscuits ---------- 125g of butter

   36 biscuits ---------- ? = $125 \times 3 = 375$g

5. $\frac{3}{8} \times \frac{4}{5} = \frac{3}{8} \times \frac{2}{5} \times 2 = \frac{3}{20} \times 2 = \frac{3}{10}$

6. 54 and 297

7. $x \longrightarrow 4x - 2$

8. 3.81

9. 12 days

10. $(7 \times 4 \times 10) \times 3 = 280 \times 3 = 840\ cm^3$

11. Rice **A**: 500g plus 25% extra free

    Rice **B**: 750g plus $\frac{1}{5}$ extra free $\longrightarrow$ Rice **B**: 750g plus 20% extra free $(\frac{1}{5} \times 100 = 20\%)$

∴ Bag **A** gives more free rice. (25% is more than 20%)

12. Lily is correct. Square-root of 120 is approximately 11.

13. 61, 67

14. Coin **C** – 110 heads. The probability of getting a head in a coin in a single throw $\frac{1}{2}$. This is 50%. In 200 throws of a coin, the probabilistic number of times of getting a head is 100. ($\frac{1}{2}$ of 200 = 100). The coin with the number closest to 100 is Coin **C**.

15. $14 \div 0.2 = 70$

$16 \times 1.25 = 20$

$20 \times 0.5 = 10$

$36 \div 0.75 = 48$

16. The sum of exterior angles of any polygon is 360^o. If the exterior angle of the 10-sided polygon is θ, then, $10\theta = 360^o$ $\therefore \theta = \frac{360}{10} = 36^o$

17. For complete solutions to the questions, contact: (+234)08033487161 or (+234)08177093682 or osospecial2015@yahoo.com