

REGULAR QUIZ 01

Form 1 Regular Course
Directed Number

Part A – MC (@2 marks)

1.	C	
2.	A	$\begin{aligned} &(-12) + (-27) - (-43) \\ &= -12 - 27 + 43 \\ &= -39 + 43 \\ &= +4 \end{aligned}$
3.	D	$\begin{aligned} S &= -4(-1)^{777} + 5(2) \\ &= -4(-1) + 10 \\ &= 4 + 10 \\ &= 14 \end{aligned}$
4.	A	$\begin{aligned} &\frac{(-4)(-3) - (3)(2)(-8)}{(-2)(7) + (8)} \\ &= \frac{12 + 48}{-14 + 8} \\ &= \frac{60}{-6} \\ &= -10 \end{aligned}$
5.	C	
6.	D	<p>Ada: $82 - 2 = 80$ Ricky: 86 $\therefore 86 - 80 = 6$</p>
7.	C	

1. C 2. A 3. D 4. A 5. C
 6. D 7. C

Part B – Short Questions

1. (a) $(-3^2) - 2^4 + (-5)^2 \times (-2)$
 $= -9 - 16 + 25 \times (-2)$ 1M

$= -25 - 50$
 $= -75$ 1A

(b) $(5 - 9) \times [7 - (-12) \div (-3) \times (2)]$
 $= -4 \times (7 - 8)$ 1M

$= -4 \times -1$
 $= 4$ 1A

(c) $\left[-\frac{1}{2} - \left(+\frac{10}{3} \right) \times \left(-\frac{9}{5} \right) \right] \div \left(-\frac{4}{3} + \frac{7}{4} \right)$
 $= \left(-\frac{1}{2} - (-6) \right) \div \left(-\frac{16}{12} + \frac{21}{12} \right)$
 $= \left(-\frac{1}{2} + 6 \right) \div \left(\frac{5}{12} \right)$ 1M

$= \left(\frac{11}{2} \right) \times \left(\frac{12}{5} \right)$
 $= \frac{66}{5}$ 1A

(6)

2. (a) $B - 2A + C$
 $= 1 - 2(-3) + 2$ 1M
 $= 9$ 1A

(b) $A \left(\frac{B}{5} - \frac{C}{3} \right)$
 $= -3 \left(\frac{1}{5} - \frac{2}{3} \right)$ 1M

$= \frac{7}{5}$ 1A

(4)

3. (a) A: 0
 B: +5
 C: -10
 D: -15
 *2A for all correct
 **1A for any 2 correct
- (b) Total
 $= 0 + 5 - 10 - 15$ 1M
 $= -20$ seconds
 Therefore, he can. 1 f.t.
 (4)

4. (a) Distance
 $= 570 - (210 + 130)$ 1M
 $= 230$ m 1A
- (b) Total distance
 $= (570 - 210) \times 2$ 1M
 $= 720$ m 1A
 (4)

5. (i) $1 + 2 + 3 + \dots + 100$
 $= \frac{100(100+1)}{2}$
 $= 5050$ 1A
- (ii) $1 + 2 + 3 + \dots + 300$
 $= \frac{300(300+1)}{2}$
 $= 45150$ 1A
- (iii) $101 + 102 + 103 + \dots + 300$
 $= (1 + 2 + \dots + 300) - (1 + 2 + \dots + 100)$
 $= 45150 - 5050$ 1M
 $= 40100$ 1A
- (iv) $2 + 4 + 6 + \dots + 400$
 $= 2 \times (1 + 2 + 3 + \dots + 200)$
 $= 2 \times \left[\frac{200(200+1)}{2} \right]$ 1M
 $= 40200$ 1A
 (6)