INTEGERS MARKING SCHEME

NO	SOLUTION	MARKS
1.	a) $\frac{-8 \div 2 + 12 \times 9 - 4 \times 6}{56 \div 7 \times 2}$ $= \frac{-4 + 108 - 24}{16}$ $= \frac{80}{16}$ $= 5$ **1999Q1**	M1 M1 M1 2
2.	$\frac{28+18}{-2} - \frac{15 - 12}{3}$ $= -23 - 1$ $= -24$ **2000Q1**	M1 M1 A1 3 marks
3.	$\frac{+4 \times 4 - (-20)}{-6 \times 6 + (-6)}$ 3 $= \frac{4 \times 4 + 20}{-6 \times 2 - 6}$ $= \frac{36}{-18}$ **2002Q1**	B1B1 A1 3 marks
4.	a)7532 b).500 **2006Q2**	B1 B1 3M
5.	$\frac{+(5) \times (-8) - (-6)}{-3+(-8)\div 2 \times 4}$ $= \frac{-8+40+6}{-3 + -4x4}$ $= \frac{38}{-19}$ $= -2$	2 marks
6.	The LCM of 3 and 5 is 15 minutes In 15 minutes 8 customers are served ; Total time = $\frac{200 \times 15}{8}$ = 375 minutes **2009Q7**	B1 M1 A1 3 marks
7.	$\frac{-2(5 + 3) - 9 \div 3 + 5}{-3 \times -5 + (-2) \times 4} = -\frac{14}{7}$ $= -2$ **2010Q1**	B1 B1 B1 3
8.	No of oranges for Friday 1948 – (750 + 750 + 240) = 208 No of oranges for Saturday 208 +560 = 768 Amount = sh.8 x 768 = sh.6144 **2010Q11**	
9	60 = 22 x 3 x 5 42 = 2 x 3 x 7 Side of the pavement LCM =22 x 3 x 5 x7 Least area = 4.2 x 4.2m = 17.64m^2 **2011Q4**	M1 A1 B1 3
10.	a) 10,500=2^2 x 3 x 5^3 x 7 b) p x 10,500 = 2^2 x 3^3 x 5^3 x 7^3 smallest value of p = 2 x 3^3 x 7^2 p = 882cm **2011Q14**	B1 M1 A1 3
11.	LCM of 9, 15 and 21 32 x 5 x 7 = 315 minutes Last time ringing together 11.00 2300 5.15 515 5.45 p.m 1745hrs **2012 Q6**	B1 M1 A1 3