Stage (9-12)

Remedial Plan 1 |
Mark Scheme

1ˢᵗ Semester | 2023-2024
Grade 9 IG
Subject: Math   **Chapter:** Number 1, Number 2, Number 3
Objectives:
- To review fractions, standard form, percentages, prime factors, HCF, LCM, and Ratio

Date:
Name:

Mark Scheme

Q1.

Q	Working	Answer	Mark		Notes
	$1 - \dfrac{5}{8}\left(= \dfrac{3}{8}\right)$ or $100\% -$ $80\%\ (=20\%)$ or $\dfrac{1}{5} + \dfrac{3}{8}\left(= \dfrac{23}{40}\right)$			M1	may see decimal equivalents
	$\dfrac{4}{5} - "\dfrac{3}{8}"$ or $\dfrac{5}{8} - "\dfrac{1}{5}"$ or $1 - "\dfrac{23}{40}"$			M1	may see decimal or percentage equivalents
		$\dfrac{17}{40}$	3	A1	
					Total 3 marks

Q2.

Q	Working	Answer	Mark	Notes
(a)		2.84×10^9	1	B1
(b)		0.000 25	1	B1
				Total 2 marks

Q3.

Q		Working	Answer	Mark	Notes	
	a		93 000 000	1	B1	
	b		Singapore	1	B1	
	c	$1.382 \times 10^9 - 1.327 \times 10^9$ **oe or** 55 000 000			M1	or for 5.5×10^n $n \neq 7$
			5.5×10^7	2	A1	
						Total 4 marks

Q4.

Q		Working	Answer	Mark	Notes	
	a	$140 = 2 \times 2 \times 5 \times 7$; $245 = 5 \times 7 \times 7$			M1	or lists at least 3 factors of each number (other than 1 and the number) (1, 2, 4, 10, 14, 35, 70, 140) (1, 5, 7, 35, 49, 245)
			35	2	A1	
	b	50, 100, 150, 200, 250, 300, 350, 400 **and** 80, 160, 240, 320, 400 **OR** $2 \times 5 \times 5$ **and** $2 \times 2 \times 2 \times 2 \times 5$			M1	
		$2 \times 2 \times 2 \times 2 \times 5 \times 5$ **or** 400			M1	LCM found
			16 40	3	A1	or 4 40 pm
						Total 5 marks

Q5.

Q		Working	Answer	Mark		Notes	
	a	$0.03 \times 180\,000 \ (=5400)$			M1		M2 for 1.03
		"5400" + 180 000			M1 dep		$\times$ 180 000
			185 400	3	A1		
	b	$6630 = 85\%$ oe **or** $\dfrac{6630}{85}(=78)$			M1		M2 for $6630 \div 0.85$
		$6630 \div 85 \times 100$ **or** "78" $\times$ 100			M1 dep		
			7800	3	A1		
							Total 6 marks

Q6.

Q		Working	Answer	Mark		Notes
		$(31.50 \div 7) \times 8$ oe $(=36)$		3	M1	Correct method to find the amount Behnaz has
		'36' $\times$ 1.2 oe			M1	Correct method to find the amount Ahmed has
			43.2(0)		A1	
						Total 3 marks

Q7.

Q		Working	Answer	Mark		Notes
		$5400 \div (5 + 3 + 4) \ (=450)$			M1	
		"450" $\times$ 5 **or** "450" $\times$ 3 **or** "450" $\times$ 4			M1	
			2250, 1350, 1800	3	A1	
						Total 3 marks