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EXAM READY CAMPAIGN
MOCK PSLE PAPER (2017)
FOUNDATION MATHEMATICS
PRIMARY 6
ANSWER KEY

Paper 1 Booklet A (Total : 30 marks)

Q1 to 10 : 1 mark each

Q1.	3	Q2.	2	Q3.	2	Q4.	3	Q5.	2
Q6.	1	Q7.	2	Q8.	2	Q9.	4	Q10.	1

Q11 to 20 : 2 marks each

Q11.	3	Q12.	2	Q13.	3	Q14.	3	Q15.	1
Q16.	2	Q17.	2	Q18.	1	Q19.	3	Q20.	4

Paper 1 Booklet B (Total : 20 marks)

Q21 to 30 : 2 marks each

Q21.	$2 \div (3 + 1) = \frac{2}{4}$ (or equivalent)	A2
Q22.	$3 \times 3 \times 8 = 72$	M1A1
Q23.	$(3000 + 30 + 27) \div 3 = 1019$	M1A1
Q24.	$3000 \div 100 = 30$ $30 \times 5 = 150$	M1A1
Q25.	Vol. of water $\rightarrow \frac{1}{4} \times 20 \times 10 \times 10 = 500$ Vol. of water $\rightarrow \underline{500 \div 1000} = 0.5$ litres	M1 A1
Q26.	Factors of 64: 1, 2, 4, 8, 16, 32 and 64 8 and 16 are smaller than 32	A1A1
Q27.	$\$1.35 + \$1.35 + \$1.35 = \4.05 $\underline{2 + 2 + 2} = 6$ bottles.	M1A1
Q28.	$\underline{180^\circ - 60^\circ - 34^\circ} = 86^\circ$	M1 A1
Q29.	Friday = $6 \times \$5 = \30 Saturday = $6 \times \$10 = \60 Sunday = $6 \times \$10 = \60	

	Total = $\underline{\$30 + \$60 + \$60} = \150	M1 A1
Q30.	$\frac{1}{2} \times 6 \text{ cm} \times 6 \text{ cm} = 18 \text{ cm}^2$	M1 A1

Paper 2 (Total : 50 marks)

Q1 to 10 : 2 marks each

Q1.	$(1 + 2 + 3 + 4 \dots + 10) = 55$ OR $(10 \times 11) \div 2 = 55$	M1 A1 OR M1 A1
Q2.	$2 \times 2 \times 2 = 8$	M1 A1
Q3.	$(9840 \div 3) \times 15 = 49200 = \underline{49 \text{ km } 200 \text{ m}}$ OR $9840 \times (15 \div 3) = 49200 = \underline{49 \text{ km } 200 \text{ m}}$	M1 A1 Or M1 A1
Q4.	$800 - 400 = 400$ $\underline{400 \div 2} = 200$	M1A1
Q5.	8.30 a.m. to 12 noon \rightarrow 3h 30 min 2.00 p.m. to 4.30 p.m. \rightarrow 2h 30 min 6.00 p.m. to 9.30 p.m. \rightarrow 3h 30 min Total duration \rightarrow $\underline{3\text{h } 30 \text{ min} + 2\text{h } 30 \text{ min} + 3\text{h } 30 \text{ min}}$ $= 9\text{h } 30\text{min}$ OR Total duration \rightarrow $\underline{210 \text{ min} + 150 \text{ min} + 210 \text{ min}} = 570 \text{ min}$ $= 9\text{h } 30 \text{ min}$	M1 A1 M1 A1
Q6.	Total height of Billy, Dennis and Edward $\rightarrow 135 \times 3 = 405 \text{ cm}$ Total height of Billy and Edward $\rightarrow 125 \times 2 = 250 \text{ cm}$ Dennis's height $\rightarrow \underline{405 - 250} = 155 \text{ (cm)}$ Note: 1.55 m (Award M1 A0)	M1A1
Q7.	$35 + 45 + 40 + 25 + 20 = 165$ $\underline{165 \div 5} = 33$	M1 A1
Q8.	$\underline{90^\circ + 30^\circ} = 120^\circ$	M1 A1
Q9.	$\angle \text{QOY} = 115^\circ - 90^\circ = 25^\circ$ $\angle y = \underline{180^\circ - 25^\circ} = 155^\circ$	M1 A1
Q10.	$\frac{1}{2} \times 4 \times 3 = 6$	

	$6 \times 5 = 30$	M1 A1
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Q11.	$(19 + 24 + 33) \div 2 \text{ sets} = 38$ $38 - 19 = 19$ OR $24 - 19 = 5 \text{ (C - A)}$ $(33 - 5) \div 2 + 5 = 19$	M1 M1 A1 OR M1 M1 A1
Q12.	$\angle FCB = 180 - 136 = 44$ $\angle ACF = 126 - 44 = 82$ OR $\angle ACD = 180 - 126 = 54$ $\angle ACF = 136 - 54 = 82$ $\angle CAB = 180 - 90 - 82 = 8^\circ$	M1 M1 M1 A1
Q13a)	Brown $\rightarrow 100\% - 25\% - 21\% - 42\% = 12\%$	A1
Q13b)	More $\rightarrow 25\% - 12\% = 13\%$ $25\% \rightarrow 75$ $1\% \rightarrow 75 \div 25 = 3$ $13\% \rightarrow 13 \times 3 = 39$	M1 A1
Q14	$\angle EBF = 90^\circ - 60^\circ = 30^\circ$ $\angle ABE = 180^\circ - 76^\circ - 42^\circ = 62^\circ$ $\angle ABF = 62^\circ - 30^\circ = 32^\circ$ OR $\angle EBF = 90^\circ - 60^\circ = 30^\circ$ $\angle BGE = 180^\circ - 76^\circ - 30^\circ = 74^\circ$ $\angle AGB = 180^\circ - 74^\circ = 106^\circ$ $\angle ABF = 180^\circ - 42^\circ - 106^\circ = 32^\circ$	M1 M1A1 M1 M1A1
Q15a)	No. of pieces $\rightarrow 7 \div \frac{4}{5} = 8\frac{3}{4} \approx 8$ pieces	M1A1
Q15b)	Length needed $\rightarrow \frac{4}{5} \times 26 = 20\frac{4}{5} \text{ m} \approx 21 \text{ m}$	M1A1
Q16a)	$\$60 + \$50 = \$110$	M1 A1
Q16b)	$\$220 + \$220 = \$440$ $\frac{80}{440} = \frac{8}{44} = \frac{2}{11}$	M1 A1

Q17a)	$10 \times 5 \text{ cm} \times 5 \text{ cm} = \mathbf{250 \text{ cm}^2}$	A1
Q17b)	$20 \times 5 \text{ cm} = \mathbf{100 \text{ cm}}$	A1
Q17ci)	$140 \text{ cm} \div 20 \text{ cm} = \mathbf{7}$	A1
Q17cii)	$1 + 2 + 3 + 4 + 5 + 6 + 7 = 28$ <u>$28 \times 5 \text{ cm} \times 5 \text{ cm} = \mathbf{700 \text{ cm}^2}$</u>	M1 A1
Q18a)	$100\% - 60\% - 15\% = \mathbf{25\%}$	A1
Q18b)	60% \longrightarrow 1800 1% \longrightarrow 30 25% \longrightarrow 750	M1 A1
Q18c)	3 parts \longrightarrow 750 1 part \longrightarrow 250 2 parts \longrightarrow 500	M1 A1