Writing, Simplifying and Ordering Fractions Past Paper Questions (MS)

Q1.

Question	Working	Answer	Mark	Notes
		$\frac{9}{30}$	B1	cao

Q2.

Question	Working	Answer	Mark	Notes
		$\frac{5}{7}$	P1	for $\frac{7}{5} = 1.4$ **or** $\frac{5}{7} = 0.7..$ **or** compares $\frac{1}{7}$ to $\frac{1}{5}$ **or** compare $\frac{5}{7}$ to 1 eg $1-\frac{5}{7}\left(=\frac{2}{7}\right)$ **or** compare $\frac{7}{5}$ to 1 eg $\frac{7}{5} = 1\frac{2}{5}$ **or** eg $\frac{49}{35}$ **or** $\frac{14}{35}$ **or** $\frac{25}{35}$ oe
		supported	P1	for $\frac{7}{5} = 1.4$ and $\frac{5}{7} = 0.7..$ **or** compares $\frac{5}{7}$ to 1 eg $1-\frac{5}{7}\left(=\frac{2}{7}\right)$ and $\frac{7}{5}$ to 1 eg $\frac{7}{5} = 1\frac{2}{5}$ **or** two correct fractions with common denominator eg $\frac{49}{35}$ and $\frac{25}{35}$
			C1	for $\frac{5}{7}$ with supporting evidence

Q3.

Question	Working	Answer	Mark	Notes
*		Bag A (supported)	3	M1 for $\frac{3}{7}$ or $\frac{5}{12}$ M1 (dep) for method to compare the two probabilities, e.g using a common denominator, eg $\frac{3}{7}=\frac{36}{84}$; $\frac{5}{12}=\frac{35}{84}$ or writing as decimals eg $\frac{3}{7} = 0.428571...$ and $\frac{5}{12} = 0.416666...$ C1 (dep on M2) for Bag A and correct method of comparison with correct figures using $\frac{3}{7}$ and $\frac{5}{12}$

Q4.

Question	Answer	Mark	Mark scheme	Additional guidance
	$\frac{5}{7}, \frac{11}{15}, \frac{3}{4}, \frac{19}{25}$	M1	conversion into decimals or percentages or other equivalent form, at least two conversions correct, **or** any three fractions in correct order	0.71(...), 0.73(...), 0.75, 0.76
		A1	cao	Accept list in reverse order for this mark Accept expressed in equivalent decimals or percentages or any other appropriate form

Q5.

Question	Answer	Mark	Mark scheme	Additional guidance
	$\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{7}{12}, \frac{3}{4}$	M1	converts fractions to a common equivalent form, at least two conversions correct eg fractions with a denominator of 12, decimals or percentages, **or** any 4 fractions in correct order	0.25, 0.33(…), 0.5, 0.58(…), 0.75
		A1	cao	Accept list in reverse order for this mark Accept expressed in equivalent decimals or percentages or any other appropriate from or mixed forms

Q6.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	82.5	M1	for a complete method, eg $132 \div 8 \times 5$	$132 - 82.5$ (= 49.5) M1 implied
		A1	cao	
(b)	$\frac{1}{4}, \frac{9}{32}, \frac{21}{64}, \frac{3}{8}$	M1	converts into decimals or percentages or equivalent fractions, at least 2 conversions correct **or** for any 3 fractions in correct order	0.25, 0.28(125), 0.32(8125), 0.37(5)
		A1	cao	Accept in reverse order for this mark Accept expressed in equivalent decimals or percentages or fractions or in mixed numerical form

Q7.

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Question	**Working**	**Answer**	**Notes**
		$\frac{5}{12}, \frac{1}{2}, \frac{17}{24}, \frac{3}{4}$	M1 for a method to convert each to a form that can be easily used for comparing, eg. $\frac{5}{12} = \frac{10}{24}$ A1 for correct order

Q8.

Question	Answer	Mark	Mark scheme	Additional guidance
	$\frac{3}{9}$	B1	for $\frac{3}{9}$ accept $\frac{1}{3}$	