TAKE 5 ... FRACTION ARITHMETIC

JustMaths

Q1.

Question		Working	Answer	Mark	
			$11\frac{2}{3}$	3	M1 for writing as improper fractions eg $\frac{25}{3}$ or $\frac{7}{5}$ M1 (dep) for multiplying improper fractions eg $\frac{25\times7}{3\times5}$ (= $\frac{175}{15}$) or $\frac{5\times7}{3\times1}$ ($=\frac{35}{3}$) A1 cao

Q2.

Question	Working	Answer	Notes
a		$7\frac{1}{2}$	M1 $\frac{9}{4}\times\frac{10}{3}$ oe M1 $\frac{90}{12}$ oe A1 $7\frac{1}{2}$
b		$5\frac{1}{4}+6\frac{2}{3}$ or $5\frac{2}{3}+6\frac{1}{4}$	B1 $5\frac{1}{4}+6\frac{2}{3}$ or $5\frac{2}{3}+6\frac{1}{4}$

Q3.

5MB2H November 2016					
Question	Working	Answer	Mark	Notes	Type
		$\frac{29}{35}$	4	M1 for writing both $4\frac{3}{5}$ and $2\frac{2}{3}$ or both $\frac{3}{5}$ and $\frac{2}{3}$, with a common denominator (a multiple of 15) with at least one correct numerator M1 for $4-2+\frac{9}{15}-\frac{10}{15}$ ($=\frac{29}{15}$) or $\frac{69}{15}-\frac{40}{15}$ M1 for "$\frac{29}{15}$" $\times\frac{3}{7}$ A1 for $\frac{29}{35}$ oe single fraction	E

Q4.

Question		Working	Answer	Mark	Notes
			$\frac{23}{30}$	3	M1 for conversion to improper fractions, e.g. $\left(\frac{13}{5}-\frac{11}{6}\right)$ or for $\left(\frac{18}{30}-\frac{25}{30}\right)$ M1 for a complete correct method A1 for $\frac{23}{30}$ oe

Q5.

Question		Working	Answer	Mark	Notes
		18 × 6.5 × 5 = 585 585 ÷ 4	146 or 147	4	M3 for 18 × 6.5 × 5 ÷ 4 or sight of 146.25 (M2 for 18 × 6.5 × 5 or 18 × 5 ÷ 4 or 6.5 × 5 ÷ 4 or 18 × 6 5 ÷ 4 or sight of 585 or 22.5 or 8.125 or 29.25) (M1 18 × 6.5 or 6.5 × 5 or 18 × 5 or ÷4 or sight of 117 or 32.5 or 90) A1 for 146 or 147