

## TAKE 5 ... FRACTION ARITHMETIC

Q1.

$\frac{11}{12}$	M1	for $\frac{10}{12}$ <b>OR</b> for using a suitable common denominator other than 12 with at least one of the two fractions correct, eg $\frac{2}{24}$ $+\frac{20}{24}$	Accept any equivalent fraction
	A1	for $\frac{11}{12}$ oe	

Q2.

Question	Working	Answer	Mark	Notes
(a)	$\frac{1}{2} \times \frac{1}{5} =$	$\frac{1}{10}$	1	B1 oe
(b)	$\frac{1}{2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} =$	$\frac{7}{8}$	2	M1 common denominators with at least one numerator correct or an unsimplified answer, or a fraction that is not completely processed eg $\frac{1' 8 + 2' 3}{2' 8}$ OR conversion to correct decimals: 0.5 + 0.375 A1 for $\frac{7}{8}$ or 0.875

Q3.

Question	Working	Answer	Mark	Notes
(a)		$\frac{15}{32}$	B1	oe
(b)		$\frac{5}{12}$	M1 A1	uses a correct common denominator with at least one correct matching numerator e.g. $\frac{8}{12}, \frac{3}{12}$

Q4.

Question	Answer	Mark	Mark scheme	Additional guidance
(a)	$\frac{95}{28}$	M1 A1	for a method to add using common denominators with at least one fraction correct (matching numerator with common denominator) eg $\frac{60}{28} + \frac{35}{28}$ or $(2)\frac{4}{28} + (1)\frac{7}{28}$	Use of decimals gets no credit unless it leads to a correct fraction
(b)	$1\frac{3}{5}$	M1 A1	for $\frac{6}{5} \times \frac{4}{3}$ or $\frac{24}{20} \div \frac{15}{20}$ or $\frac{8}{5}$ oe eg $1\frac{9}{15}$ cao	Use of decimals gets no credit unless it leads to a correct fraction

Q5.

PAPER: IMA0_1F				
Question	Working	Answer	Mark	Notes
		18	3	<p>M1 for <math>\frac{1}{10} \times 60 (= 6)</math> or <math>\frac{1}{10} + \frac{3}{5}</math> or “<math>\frac{7}{10}</math>” oe</p> <p>M1 for <math>\frac{3}{5} \times 60 (= 36)</math> or <math>1 - \frac{7}{10}</math> (= <math>\frac{3}{10}</math>) or “<math>\frac{7}{10}</math>” <math>\times 60 (= 42)</math></p> <p>A1 cao</p>