

TAKE 5 ... LOWEST COMMON MULTIPLE

Q1.

PAPER: 5MB2H_01				
Question	Working	Answer	Mark	Notes
(i)		candles 3 holders 5	5	M1 for listing multiples of either 30 or 18 (at least 3 but condone errors if intention is clear) M1 for listing multiples of both 30 and 18 (at least 3 but condone errors if intention is clear) M1 (dep on M1) for division by 30 or 18 or counts up multiples (implied if one answer is correct or answers are reversed) A1 candles (packs) 3, holders (packs) 5 or any same multiple of 3,5 OR M1 expansion of either number in factors M1 demonstrates one of the expansions that includes 6 oe M1 demonstrates second expansion that includes 6 oe A1 candles (packs) 3, holders (packs) 5 or any same multiple of 3,5
(ii)		90		B1 for 90 or ft on both their packs or ft "common multiple" NB: accept consistent multiples of the given answer

Q2.

Question	Working	Answer	Mark	Notes
	Exeter coach after 20, 40, 60, 80, 100... Plymouth coach after 16, 32, 48, 64, 80, 96, ... or Timetable schedule for the coaches Exeter coach at 8.00, 8.20, 8.40, 9.00, 9.20... Plymouth coach at 8.00, 8.16, 8.32, 8.48, 9.04, 9.20... or LCM of 16 and 20 is 80	9:20 (am)	3	M1 for attempt to list multiples of 16 and 20 (at least the first 3 of each, condone 1 addition error) M1(dep) for identifying their LCM A1 9:20 oe (do not accept 9.20pm) or M1 for attempt to draw up a timetable showing when the coaches will run (at least 3 extra times for each, condone 1 addition error) M1(dep) for identifying the first time common to both timetables. A1 9:20 oe (do not accept 9.20pm) or M1 attempt to find the LCM M1 for $2 \times 2 \times 2 \times 2 \times 5$ oe seen A1 9:20 oe (do not accept 9.20pm)

Q3.

5MB2F November 2016					
Question	Working	Answer	Mark	Notes	Type
	6, 10, 14, 18 8, 13, 18	18	3	M1 for listing at least 3 multiples of 4 and at least 3 multiples of 5 M1 for adding 2 to multiples of 4 and adding 3 to multiples of 5 A1 for 18 cao	E

Q4.

PAPER: 1MA0 1H				
Question	Working	Answer	Mark	Notes
	40, 80, 120 15, 30, 45, 60, 75, 90, 105, 120 40 = 2 × 2 × 2 × 5 15 = 3 × 5	3 and 8 or any multiple of 3, 8	3	M1 for multiples of both 40 and 15 (at least 2 of each shown but condone errors if intention is clear) or for 40×15 M1 (dep on M1) for a complete method to find a common multiple of 40 and 15, eg. 120, 240, 600 condoning one arithmetic error in any lists of multiples shown A1 for 3, 8 or any multiple of 3, 8 OR M1 for factors 2,2,2,5 and factors 3,5 M1 (dep on M1) for a complete method to find a common multiple of 40 and 15 A1 for 3, 8 or any multiple of 3, 8

Q5.

PAPER: 5MB2H_01				
Question	Working	Answer	Mark	Notes
		blue paint 5 white paint 4	5	M1 attempts multiples of either 12 or 15 (at least 3 but condone errors if intention is clear) M1 attempts multiples of both 12 and 15 (at least 3 but condone errors if intention is clear) M1 (dep on M1) for a division of 60 by 12 or 15, or counts up "multiples" or answer blue : white in the ratio 5 : 4 A1 blue paint 5; white paint 4 OR M1 correct expansion of either number into factors M1 correct expansion of both number into factors M1 (dep on M1) demonstrates two expansions that include 3 oe A1 blue paint 5; white paint 4