HCF-LCM-SET-1

1

Find the highest common factor (HCF) of 56 and 70.

..... [2]

MS-1

	14	**2**	**M1** for $56 = 2\times2\times2\times7$ soi or $70 = 2\times5\times7$ soi or 2×7 as final answer

2

Find the highest common factor (HCF) of 90 and 48.

..... [2]

MS-2

	6	**2**	**M1** for $2 \times 3^2 \times 5$ or $2^4 \times 3$ or for 2×3 as final answer or **B1** for 2 or 3 as final answer

3

Work out the highest common factor (HCF) of 36 and 90.

Answer ..... [2]

MS-3		18	**2**	**M1** for $36 = 2 \times 2 \times 3 \times 3$ soi or $90 = 2 \times 3 \times 3 \times 5$ soi or listing the correct factors of 36 and 90 showing a minimum of 2, 3, 6, 9 and 18
4	Find the lowest common multiple (LCM) of 30 and 45. *Answer(b)* ..... [2]			
MS-4	90		**2**	**B1** for $90k$ or for listing multiples of each up to 90 or $2 \times 3^2 \times 5$
5	Find the lowest common multiple (LCM) of 36 and 48. ..... [2]			
MS-5		144	**2**	**M1** for finding a correct product of prime factors or correctly listing a minimum of 3 multiples of 36 **and** 48 or for answer $2^4 \times 3^2$ oe or $144k$
6	Find the lowest common multiple (LCM) of 20 and 24. ..... [2]			

MS-6		120	2	**M1** for finding a correct product of prime factors or correctly listing a minimum of 3 multiples of 20 **and** 24 or for answer $2^3 \times 3 \times 5$ oe or $120k$ where k is an integer > 1
7	Find the lowest common multiple (LCM) of 56 and 42. ..... [2]			
MS-7		168	2	**B1** for $168k$ or $2 \times 2 \times 2 \times 3 \times 7$ oe or for listing multiples of each up to 168