

Factors and Multiples *ramp up*

ANSWERS

a List the first five multiples of 7 <u>7, 14, 21, 28, 35</u> what a multiple is	b List all the factors of 18 <u>1, 2, 3, 6, 9, 18</u> what a factor is	c List the common factors of 12 and 18 <u>1, 2, 3, 6</u> common factors	d Find the highest common factor (HCF) of 18 and 45 <u>9</u> the HCF (the highest common factor)
e List the first three common multiples of 4 and 6 <u>12, 24, 36</u> common multiples	f Find the lowest common multiple (LCM) of 10 and 15 <u>30</u> the LCM (not the product)	g Find the LCM of 6 and 18 <u>18</u> LCM when one divides the other	h Find the HCF of 8 and 15 <u>1</u> HCF when no prime factor is shared
i Find the HCF of 24, 40 and 60 <u>4</u> HCF of three numbers	j Find the LCM of 4, 6 and 10 <u>60</u> LCM of three numbers	k Find the HCF of $2^3 \times 3 \times 5$ and $2^2 \times 3^2$ <u>$2^2 \times 3 = 12$</u> HCF in index form (lowest powers)	l Find the LCM of $2^3 \times 3 \times 5$ and $2^2 \times 3^2$ <u>$2^3 \times 3^2 \times 5 = 360$</u> LCM in index form (highest powers)

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