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Highest Common Factor Worksheet Gcse

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HCF AND LCM $HCF \times LCM = A \times B \Rightarrow LCM = \frac{A \times B}{HCF}$ Ref: G131. **3R1**

EXAM-TYPE QUESTIONS

<p>A1 Express 204 as a product of its prime factors. Show your working clearly.</p> $204 = 2^2 \times 3 \times 17$	<p>A2 Write 792 as a product of its prime factors. Show your working clearly.</p> $792 = 2^3 \times 3^2 \times 11$	<p>A3 $1400 = 2^3 \times 5^2 \times 7$ Find the value of p.</p> $1400 = 2^2 \times 5^2 \times 7$ $\Rightarrow p = 3$	<p>A4 Given that $120 = 2^3 \times 3 \times 5$</p> $108 = 2^2 \times 3^3$ $\therefore n = 2^2 \times 3 \times 5 \times 2^2 \times 3^2$ $= 2^4 \times 3^3 \times 5$
<p>B1</p> $252 = 2^2 \times 3^2 \times 7$ $90 = 2 \times 3^2 \times 5$ $HCF = 2 \times 3^2 = 18$	<p>B2</p> $42 = 2 \times 3 \times 7$ $24 = 2^3 \times 3$ $HCF = 2 \times 3$ $LCM = 2^3 \times 3 \times 7 = 168$	<p>B3</p> $168 = 2^3 \times 3 \times 7$ $180 = 2^2 \times 3^2 \times 5$ $HCF = 2^2 \times 3 = 12$ $LCM = 2^3 \times 3^2 \times 5 \times 7 = 2520$	<p>B4</p> $540 = 2^2 \times 3^3 \times 5$ $180 = 2^2 \times 3^2 \times 5$ $72 = 2^3 \times 3^2$ $HCF = 2^2 \times 3^2 = 36$ $LCM = 2^3 \times 3^3 \times 5 = 1080$
<p>C1</p> $A = 2^3 \times 3 \times 5^2$ $B = 2^2 \times 3$ $HCF = 2^2 \times 3 (= 12)$ $LCM = 2^3 \times 3 \times 5^2 (= 600)$	<p>C2</p> $M = 2^2 \times 3^2 \times 7$ $N = 2^3 \times 3^2 \times 5$ $HCF = 2^2 \times 3^2 (= 36)$ $LCM = 2^3 \times 3^2 \times 5 \times 7 (= 5040)$	<p>C3</p> $2520 = 2^3 \times 3^2 \times 5 \times 7$ $3024 = 2^4 \times 3^3 \times 7$ $HCF = 2^3 \times 3^2 \times 7$ $LCM = 2^4 \times 3^3 \times 5 \times 7$	<p>C4</p> $740880 = 2^4 \times 3^3 \times 5 \times 7^3$ $980100 = 2^2 \times 3^4 \times 5^2 \times 11^2$ $HCF = 2^2 \times 3^3 \times 5 = 540$
<p>D1</p> $HCF, 18 = 2 \times 3^2$ $LCM, 540 = 2^2 \times 3^3 \times 5$ $90 = 2 \times 3^2 \times 5$ $x = \frac{2 \times 3^2 \times 2^2 \times 3^3 \times 5}{2 \times 3^2 \times 5} = 108$	<p>D2</p> $HCF, 6 = 2 \times 3$ $LCM, 180 = 2^2 \times 3^2 \times 5$ $12 = 2^2 \times 3$ $x = \frac{2 \times 3 \times 2^2 \times 3^2 \times 5}{2^2 \times 3} = 90$	<p>D3</p> <p>Find two numbers between 100 and 150 that have a HCF of 22.</p> <p>They must both be multiples of 22, so</p> $5 \times 22 = 110$ $6 \times 22 = 132$	<p>D4</p> $360 = 2^4 \times 3^2 \times 5$ <p>Writing a list of the different factors gives...</p> <p>2, 4, 8, 3, 9, 5, 15, 45, 6, 12, 24, 18, 36, ...</p> <p>This gives lots of answers, such as</p> $15 + 36 = 45$

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