

SMART EXAM RESOURCES
CAMBRIDGE LOWER SECONDARY MATHS
STAGE 8
TOPIC: FACTORS AND MULTIPLES
SET-2

- 1 Write 6600 as a product of its prime factors.

..... [2]

Mark Scheme:

$$6600 = 6 \times 1100 = 2 \times 3 \times 11 \times 2 \times 5 \times 2 \times 5$$

$$\text{Hence } 6600 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 11$$

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- 2 Complete each box with the correct power.

$$48 \times 150 = 2^{\square} \times 3^{\square} \times 5^{\square}$$

[2]

Mark Scheme:

5 and 2 and 2	2	<p>Award 1 mark for two correct powers or for $[48 =] 2 \times 2 \times 2 \times 2 \times 3$ or for $[150 =] 2 \times 3 \times 5 \times 5$ or for $[7200 =] 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5$</p>	<p>Powers must be in the correct order.</p> <p>For 1 mark, accept as e.g. factor trees, repeated division, listing.</p>
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