10CMR HCF LCM Bounds Homework

1   Write 72 as a product of its prime factors.   (1)

2   Write 240 as a product of its prime factors.   (1)

3   Find the highest common factor (HCF) of 60 and 114   (2)

4   Find the lowest common multiple (LCM) of 120 and 150   (2)

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$$648 = 2^3 \times 3^4 \qquad 540 = 2^2 \times 3^3 \times 5$$

(a) Write down the highest common factor (HCF) of 648 and 540.   (2)

(b) Find the lowest common multiple (LCM) of 648 and 540.   (2)

6   A wooden toy is 6 cm tall to the nearest cm.

Find the upper and lower bounds for the height of the toy.   (2)

7   The mass of the toy is 2.2 kg to the nearest 0.1 kg.

Find the error interval, in which the true mass of the toy, m, lies   (2)

_____ $\leq m <$ _____

8   The length of a log is measured exactly to be 55.6m

Calculate the length of the log truncated to the nearest meter.   (1)

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