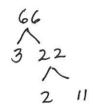
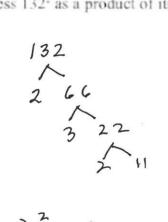
7 (a) Express 66 as a product of its prime factors.



\$66= 3×2×11

(b) Express 1322 as a product of its prime factors.



(132) = 2×3×2×11×2×3×2×11

(2)

(a) Find the highest common factor (HCF) of 24 and 30

$$24 = 3 \times 2 \times 2 \times 2$$
  
 $30 = 3 \times 2 \times 5$   
 $HCF = 3 \times 2 = 6$ 

(b) Find the lowest common multiple (LCM) of 4, 5 and 6

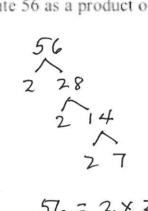
3. (a) Express 45 as a product of its prime factors.

(2)

(b) Find the Highest Common Factor (HCF) of 45 and 30

$$HCF = 3 \times 5 = 15$$

20. (a) Write 56 as a product of its prime factors.



(2)

(b) Find the Highest Common Factor (HCF) of 56 and 42

(2)

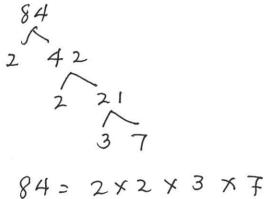
(Total 4 marks)

15. Express 180 as a product of its prime factors.

as a product of its prime factors

$$\begin{array}{c}
180 \\
2 \times 90 \\
3 \times 30 \\
2 \times 5
\end{array}$$

15. (a) Express 84 as a product of its prime factors.



(3)

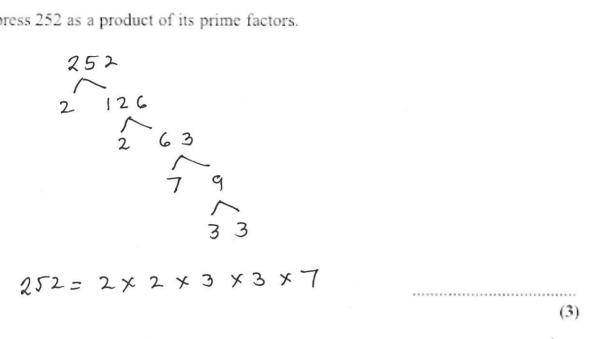
(b) Find the Highest Common Factor (HCF) of 84 and 35

$$84 = 2 \times 2 \times 3 \times 7$$
  
 $35 = 5 \times 7$   
HCF = 7

(2)

(Total 5 marks)

16. (a) Express 252 as a product of its prime factors.



James thinks of two numbers.

"The Highest Common Factor (HCF) of my two numbers is 3 He says The Lowest Common Multiple (LCM) of my two numbers is 45"

(b) Write down two numbers that James could be thinking of.

$$15$$
 and  $9$   
 $15 = 3 \times 5$   
 $9 = 3 \times 3$ 

5. Work out the Highest Common Factor (HCF) of 24 and 64

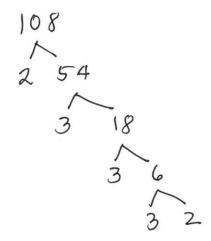
$$2A = 2 \times 2 \times 2 \times 3$$

$$6A = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$HCF = 8$$

(Total 2 marks)

(b) Express 108 as a product of its prime factors.



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