

CW/05  
25

SB

Q2) 48, 84, 88

$$\begin{array}{r}
 48 \overline{) 84} \quad 4 \\
 \underline{-48} \\
 36 \\
 36 \overline{) 36} \quad 1 \\
 \underline{-36} \\
 0
 \end{array}$$

$2 \div 3 = 0$   
So 4 is the HCF

iv) 48, 84, 88

$$\begin{array}{l}
 \text{ans } 48 = 2 \times 2 \times 2 \times 2 \times 3 \\
 84 = 2 \times 2 \times 3 \times 7 \\
 88 = 2 \times 2 \times 2 \times 11
 \end{array}$$

The HCF of 48, 84, 88 is  $2 \times 2 = 4$

v) 12, 18, 28

$$\begin{array}{l}
 \text{ans } 12 = 2 \times 2 \times 3 \\
 18 = 2 \times 2 \times 2 \times 2 \\
 28 = 2 \times 2 \times 7
 \end{array}$$

The HCF of 12, 18, 28 is 4

Q.1 45, 75 & 135

ans  $45 = 3 \times 3 \times 5$   
 $75 = 3 \times 5 \times 5$   
 $135 = 3 \times 3 \times 3 \times 5$   
~~so the answer is 5~~

Q.2 48, 36 & 96

ans  $48 = 2 \times 2 \times 2 \times 2 \times 3$   
 $36 = 2 \times 2 \times 3 \times 3$   
 $96 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$

$2 \times 2 \times 2 = 12$

Q.3 66, 33, 132

ans  $33 \overline{) 66} \quad 2$   
 $\quad \underline{- 66}$   
 $\quad \quad 00$   
 HCF of 33 & 66 is 33

$33 \overline{) 132} \quad 4$   
 $\quad \underline{- 132}$   
 $\quad \quad 00$   
 HCF of 33 & 132 is 33

5.  $9/28$

$$\begin{array}{r} 8 \overline{) 124} \\ \underline{8} \phantom{0} \\ 4 \phantom{0} \\ \underline{4} \\ 0 \end{array}$$

So 4 is the HCF of 8 & 12.

$$\begin{array}{r} 12 \overline{) 18} \\ \underline{12} \\ 0 \end{array}$$

$$\begin{array}{r} 12 \overline{) 12} \\ \underline{12} \\ 0 \end{array}$$

So 6 is the HCF of 12 & 12.  
18.

6.  $45/56$

ans  $45/56$

$$\begin{array}{r} 11 \overline{) 454} \\ \underline{22} \phantom{0} \\ 23 \phantom{0} \\ \underline{22} \phantom{0} \\ 1 \phantom{0} \\ \underline{0} \\ 0 \end{array}$$

7.  $16, 16, 21, 28$

1.  $(16 \& 21)$

2.  $(15 \& 16)$

3.  $(15 \& 28)$

HW  
26

5. 180, 225, 315

ans  $180 = 5 \times 2 \times 3 \times 3 \times 2$   
 $225 = 5 \times 5 \times 3 \times 3$   
 $315 = 5 \times 3 \times 3 \times 7$

$$5 \times 3 \times 3 = 45$$

8. ~~96 = 5 \times 2 \times 2 \times 2 \times 2 \times 2~~  
~~111 = 3 \times 37~~  
~~120 = 2 \times 2 \times 2 \times 3 \times 5~~

$93 - 3 = 90 = 5 \times 3 \times 3 \times 2$   
 $111 - 3 = 108 = 5 \times 2 \times 2 \times 3 \times 3$   
 $120 - 3 = 117 = 3 \times 3 \times 13$

$$3 \times 3 \times 2 = 18$$