

Hw Exo 8B

30 (i)

$$16 \mid 24 \mid 1$$
$$\quad \mid 16 \mid$$

$$\hline 08 \mid 16 \mid 2$$
$$\quad \mid -16 \mid$$
$$\hline 00$$

HCF = 08

(ii)

$$18 \mid 30 \mid 1$$
$$\quad \mid 18 \mid$$

$$\hline 12 \mid 18 \mid 1$$
$$\quad \mid 12 \mid$$
$$\hline 06 \mid 12 \mid 2$$
$$\quad \mid 12 \mid$$
$$\hline 00$$

HCF = 6

(iv)

$$\begin{array}{r|l|l} 70 & 80 & 1 \\ & 70 & \end{array}$$

$$\begin{array}{r|l|l} 10 & 70 & 7 \\ & 70 & \\ \hline & 00 & \end{array}$$

10

$$\begin{array}{r|l|l} 10 & 120 & 12 \\ & 120 & \\ \hline & 000 & \end{array}$$

$$\begin{array}{r|l|l} 10 & 150 & 15 \\ & 150 & \\ \hline & 000 & \end{array}$$

HCF = 10

(iii)

$$7 \begin{array}{r|l} 14 & 2 \\ \hline 14 & \\ \hline 00 & \end{array}$$

$$7 \begin{array}{r|l} 24 & 3 \\ \hline 21 & \end{array}$$

$$\begin{array}{r|l} 03 & 21 & 7 \\ \hline & 21 & \\ \hline & 00 & \end{array}$$

HCF = 03

(iv)

$$32 \begin{array}{r|l} 56 & 7 \\ \hline 32 & \end{array}$$

$$\begin{array}{r|l} 24 & 32 & 1 \\ \hline & 24 & \end{array}$$

$$\begin{array}{r|l} 08 & 24 & 3 \\ \hline & 24 & \\ \hline & 00 & \end{array}$$

$$08 \begin{array}{r|l} 46 & 5 \\ \hline 40 & \end{array}$$

$$\begin{array}{r|l} 06 & 40 & 6 \\ \hline & 36 & \end{array}$$

$$\begin{array}{r|l} 04 & 36 & 4 \\ \hline & 32 & \\ \hline & 00 & \end{array}$$

HCF = 4

Q. (i)

$$45 \mid 75 \mid 1$$

$$\begin{array}{r} 30 \mid 45 \mid 1 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 15 \mid 30 \mid 2 \\ \hline 30 \\ \hline 00 \end{array}$$

$$\begin{array}{r} 15 \mid 135 \mid 9 \\ \hline 135 \\ \hline 00 \end{array}$$

HCF = 15

Q. (ii)

~~48~~ ~~36~~

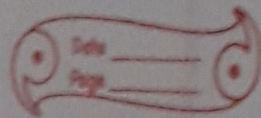
$$36 \mid 48 \mid 1$$

$$\begin{array}{r} 12 \mid 36 \mid 3 \\ \hline 36 \\ \hline 00 \end{array}$$

$$\begin{array}{r} 12 \mid 96 \mid 8 \\ \hline 96 \\ \hline 00 \end{array}$$

HCF = 12

$$\begin{array}{r} 450 \\ \times 20 \\ \hline 90 \\ \hline \end{array}$$



(111)

$$\begin{array}{r|l} 33 & 66 \\ \hline & 66 \\ \hline & 00 \end{array} \quad 2$$

$$\begin{array}{r|l} 33 & 132 \\ \hline & 132 \\ \hline & 00 \end{array} \quad 4$$

HCF = 33

~~(111)~~

6.

Yes they are coprime

$$\begin{array}{r|l} 45 & 56 \\ \hline & 45 \\ \hline & 11 \\ \hline & 45 \\ \hline & 44 \\ \hline & 01 \\ \hline & 44 \\ \hline & 44 \\ \hline & 00 \end{array} \quad 1$$

330 7.

$$\begin{array}{r} \times 4 \\ 132 \\ \hline \end{array}$$

$$\begin{array}{r|l} 15 & 15 \\ \hline & 15 \\ \hline & 01 \\ \hline & 15 \\ \hline & 15 \\ \hline & 00 \end{array} \quad 2$$

$$\begin{array}{r|l} 16 & 21 \\ \hline & 16 \\ \hline & 05 \\ \hline & 16 \\ \hline & 15 \\ \hline & 01 \\ \hline & 15 \\ \hline & 15 \\ \hline & 00 \end{array} \quad 1$$

$$\begin{array}{r|l} 05 & 16 \\ \hline & 15 \\ \hline & 01 \\ \hline & 15 \\ \hline & 15 \\ \hline & 00 \end{array} \quad 3$$

$$\begin{array}{r|l} 01 & 15 \\ \hline & 15 \\ \hline & 00 \end{array} \quad 15$$

0

$$\begin{array}{r|l} 21 & 28 \\ \hline & 21 \\ \hline & 07 \\ \hline & 21 \\ \hline & 21 \\ \hline & 00 \end{array} \quad 1$$

The Coprime Pairs are
= 15, 16, 15, 28, 16, 21