

1. simplify $\frac{22}{96}$:

$$22 = 2 \times 11$$

$$96 = 2 \times 48$$

$$? = \frac{11}{48}$$

$$\frac{22}{96} = \frac{\cancel{2} \times 11}{\cancel{2} \times 48} = \frac{11}{48}$$

$$(or) \frac{2}{2} \times \frac{11}{48} = \frac{11}{48}$$

$\frac{?}{\text{LHS}}$ $=$ $\frac{?}{\text{RHS}}$
left hand side right hand side

2. simplify $\frac{33}{66}$;

$$33 = 33 \times 1$$

$$66 = 33 \times 2$$

$$= \frac{1}{2}$$

2

3. Simplify $\frac{123}{427}$:

$$123 = 3 \times 41$$
$$427 = 1 \times 427$$

$$? = \frac{41}{427}$$

X

$$\frac{123}{427} = \frac{123}{427}$$

$$\text{GCD} = 1.$$

$$4 \overline{) 17427}$$

$$41$$

$$017$$

$$\frac{0}{17}$$

X

$$123 \overline{) 427} (3$$
$$369$$

$$58 \overline{) 123} (2$$
$$116$$

$$7 \overline{) 58} (8$$
$$56$$
$$2 \overline{) 2} (1$$

4. $\frac{56}{92}$: simplify

$$56 = 4 \times 14$$

? ~~92~~

$$4 \times 23$$

$$= \frac{14}{23}$$

✓

$$\frac{56}{92} = \frac{4 \times 14}{4 \times 23}$$

$$92 \neq 42$$

your 92 looks
like 42

$$5, \frac{99}{132}$$

$$\begin{array}{l} 99: \quad 3 \times 33 \\ 132: \quad 4 \times 33 \end{array} \quad \times$$

$$\frac{99}{132} = \frac{3 \times 33}{4 \times 33} = \frac{3}{4}$$

$$? = \frac{3}{4}$$

$$\text{~~5~~} \quad \times$$

$$6. \begin{array}{r} 243 \\ \hline 2025 \end{array}$$

$$143 \rightarrow 3 \times 81$$

$$\frac{243}{2025} = \frac{3^5}{3^4 \times 5^2} = \frac{3}{5^2}$$

$$= \frac{3}{25}$$

$$? = \frac{81}{675}$$

$$2 \times$$

↓
This is wrong
'3' is not the GCD!
81 is -

$$7. \quad \frac{384}{512}$$

$$384 = 128 \times 3$$

$$512 = 128 \times 4$$

$$= \frac{3}{4}$$

$$\frac{384}{512} = \frac{128 \times 3}{128 \times 4}$$

$$= \frac{3}{4}$$

$$384 \overline{) 512}$$

$$\begin{array}{r} 384 \\ \hline 128 \overline{) 384} \quad (2 \\ 256 \\ \hline 128 \overline{) 128} \quad (1 \\ 128 \\ \hline 000 \end{array}$$

$$8. \quad \frac{28}{70}$$

$$28 = 14 \times 2$$

$$70 = 14 \times 5$$

$$? = \frac{2}{5}$$

$$\frac{28}{70} = \frac{14 \times 2}{14 \times 5} = \frac{2}{5}$$

$$28 \overline{) 70} 2$$

$$\begin{array}{r} 56 \\ \underline{14} \end{array} \overline{) 28} 2$$

$$\frac{28}{00}$$