

$$(25, 125) = 5 \times 5 = 25$$

$$[25, 125] = 5 \times 5 \times 5 = 125$$

$$25 = 5 \times 5$$

$$125 = 5 \times 5 \times 5$$

$$(ff, vv) = 1$$

$$[ff, vv] = 2 \times 23 \times 7 \times 11 = 3542$$

$$ff = 2 \times 23$$

$$vv = 7 \times 11$$

$$(65, 120) = 5$$

$$[65, 120] = 5 \times 2 \times 2 \times 2 \times 3 \times 13 = 1560$$

$$65 = 5 \times 13$$

$$120 = 2 \times 2 \times 2 \times 3 \times 5$$

$$(75, 350) = 5 \times 5 = 25$$

$$[75, 350] = 5 \times 5 \times 2 \times 3 \times 7 = 1050$$

$$75 = 5 \times 5 \times 3$$

$$350 = 2 \times 5 \times 5 \times 7$$

$$(35, 155) = 5$$

$$[35, 155] = 5 \times 7 \times 31 = 1085$$

$$35 = 5 \times 7$$

$$155 = 5 \times 31$$

$$(90, 11) = 3 \times 3 = 9$$

$$[90, 11] = 3 \times 3 \times 2 \times 5 \times 3 \times 3 = 110$$

$$90 = 2 \times 3 \times 3 \times 5$$

$$11 = 3 \times 3 \times 3 \times 3$$

$$(315, 990) = 3 \times 3 \times 5 = 45$$

$$[315, 990] = 3 \times 3 \times 5 \times 2 \times 7 \times 11 = 6930$$

$$315 = 3 \times 3 \times 5 \times 7$$

$$990 = 2 \times 3 \times 3 \times 5 \times 11$$

$$(\heartsuit\heartsuit,\spadesuit\heartsuit) = \heartsuit$$

$$[\heartsuit\heartsuit,\spadesuit\heartsuit] = \heartsuit \times 3 \times 11 \times \heartsuit = 12\heartsuit$$

$$\heartsuit\heartsuit = \heartsuit \times 11$$

$$\spadesuit\heartsuit = 3 \times \heartsuit \times \heartsuit$$

$$(\heartsuit, 18\spadesuit) = \color{blue}{2} \times \color{blue}{5} = 1\spadesuit$$

$$[\heartsuit, 18\spadesuit] = \color{blue}{2} \times \color{blue}{5} \times 2 \times 3 \times 3 \times 5 = 9\spadesuit$$

$$5\spadesuit = 2 \times \color{blue}{5} \times 5$$

$$18\spadesuit = 2 \times \color{blue}{2} \times 3 \times 3 \times \color{blue}{5}$$

$$(35, 130) = 5$$

$$[35, 130] = 5 \times 7 \times 2 \times 13 = 910$$

$$35 = 5 \times 7$$

$$130 = 2 \times 5 \times 13$$

35:35, 70, 105, 140, 175, 210, 245, 280, 315, 350, 385, 420, 455, 490, 525, 560, 595, 630, 665, 700, 735, 770, 805, 840, 875, 910

130:130, 260, 390, 520, 650, 780, 910

$$(120, 64) = 2 \times 2 \times 2 = 8$$

$$[120, 64] = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5 = 960$$

$$120 = 2 \times 2 \times 2 \times 3 \times 5$$

$$64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$\frac{15}{90} = \frac{1}{6}$$

$$\frac{315}{990} = \frac{7}{22}$$

$$\frac{315}{990} = \frac{63}{198} = \frac{21}{66} = \frac{7}{22}$$

