

$$\begin{array}{c}
 \begin{array}{c}
 \overline{a} \\
 f \mid \mid b \\
 \mid \underline{g} \mid \\
 e \mid \mid c \\
 \mid \underline{d} \mid
 \end{array}
 \left\{ \begin{array}{l}
 1 = b \cdot c \\
 4 = f \cdot g \cdot b \cdot c \\
 7 = a \cdot b \cdot c \\
 8 = a \cdot b \cdot c \cdot d \cdot e \cdot f \cdot g
 \end{array} \right.
 \begin{array}{l}
 2 \\
 4 \\
 3 \\
 7
 \end{array}
 \end{array}$$

$$\begin{array}{lcl}
 2 = a \cdot b \cdot g \cdot e \cdot d & \text{missing (c, f)} & 5 \\
 5 = a \cdot f \cdot g \cdot c \cdot d & (b, e) & 5 \\
 3 = a \cdot b \cdot g \cdot c \cdot d & (e, f) & 5 \\
 6 = a \cdot f \cdot \textcircled{g} \cdot c \cdot e \cdot d & (b) & 6 \\
 0 = a \cdot \textcircled{b} \cdot c \cdot d \cdot e \cdot f & (g) & 6 \\
 9 = a \cdot b \cdot c \cdot d \cdot f \cdot g & (e) & 6
 \end{array}$$

$$a = \text{diff} (1, 7) = 7 - 1 = a \cdot b \cdot c - b \cdot c = a$$

2, 3, 5, 6, 7, 8, 9, 0 = (8)

$$b = 1, 2, 3, 4, 7, 8, 9, 0 \quad (8)$$

$$c = 1, 3, 4, 5, 6, 7, 8, 9, 0 \quad (9)$$

$$d = 2, 3, 5, 6, 8, 9, 0 \quad (7)$$

$$e = 2, 6, 8, 0 \quad (4)$$

$$f = 4, 5, 6, 8, 9, 0 \quad (6)$$

$$g = 1, 3, 4, 5, 6, 8, 9, 17)$$

a ✓

↳ diff between group size 2 and size 3

b ✓ → only with count 8 that is not a

c ✓ → only with count 9

d ✓ → remainder

e ✓ → only with count 4

f ✓ → only with count 6

g ✓ → only unidentified in group 4