

$$\frac{a}{b} = \frac{a \cdot c}{b \cdot c} = \frac{a/c}{b/c}$$

$$\frac{2}{5} = \frac{2 \cdot 3}{15} = \frac{6}{15}$$

5 · 3

$$\frac{3}{4} = \frac{3 \cdot 3}{12} = \frac{9}{12}$$

4 · 3

$$\frac{5}{8} = \frac{5 \cdot 7}{56} = \frac{35}{56}$$

8 · 7

$$\frac{8}{7} = \frac{8 \cdot 3}{21} = \frac{24}{21}$$

$$\frac{5}{8} = \frac{5 \cdot 2}{16} = \frac{10}{16}$$

8 · 2

$$\frac{7}{8} = \frac{7 \cdot 125}{1000} = \frac{875}{1000} = 0.875$$

8 · 125

$$8 \overline{) 1000} \\ \underline{8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0$$

$$\begin{array}{r} 125 \\ 7 \\ \hline 875 \end{array}$$

$$\frac{2}{3} = \frac{2 \cdot 154}{462} = \frac{308}{462}$$

3 · 154

$$3 \overline{) 462} \\ \underline{3} \\ 16 \\ \underline{15} \\ 12 \\ \underline{12} \\ 0$$

Truco: $4 + 6 + 2 = 12$ múltiplo de 3? Si, $12 = 3 \cdot 4$ $\begin{array}{r} 4 \\ 3 \overline{) 12} \\ \underline{12} \\ 0 \end{array}$
 $\Rightarrow 462$ también es un mult. de 3!

$$\frac{5}{9} = \frac{5 \cdot 12}{9 \cdot 12} = \frac{60}{108}$$

$$\frac{12}{9} = \frac{4}{3} \checkmark$$

(3)

$$a) \frac{28}{50} = \frac{14}{25} \checkmark$$

$$\frac{a}{b} = \frac{a/c}{b/c}$$

$$\frac{10}{50} = \frac{2}{10} = \frac{2}{5}$$

$$5 \sqrt{75} = 25$$

factor común 5
5 fac. com.

$$\frac{50}{75} = \frac{2}{3}$$

$$\frac{44}{48} = \frac{11}{12} = \frac{11}{12}$$

primo

$$3 \sqrt{57} = 27$$

fac. com (2)

fac. com! (3) ✓

Primos: 2, 3, ~~4~~, 5, ~~6~~, 7, ~~8~~, ~~9~~, ~~10~~, 11, ~~12~~, 13, ~~14~~
~~15~~, ~~16~~, 17, ...

2, 3, 5, 7, 11, (13), 17, ...

Euclides: hay ∞ Primos

$$\begin{array}{r} 16 \\ 80 \\ \hline 55 \\ \uparrow \\ \text{fac. común } 5 \end{array} = \frac{16}{11}$$

$$5 \overline{) 80} \\ \underline{5} \\ 30$$

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

$$\begin{array}{r} 73 \\ 365 \\ \hline 65 \\ \uparrow \\ \text{fac. común } 13 \end{array} = \frac{73}{13}$$

2 es un factor de 65?
 Si no $65 = 2 \cdot \text{algo}$

fac. común ~~2~~ ~~5~~ (5) $6+5 = 11$ $\frac{65}{2} =$ $5 \overline{) 65}$ ✓

múlt. de 2 = 2, 4, 6, 8, ... $\frac{5}{15}$

$$13 \overline{) 73} \\ \underline{65} \\ \textcircled{-8}$$

$$5 \overline{) 365} \\ \underline{35} \\ 15 \\ \underline{15} \\ \hline$$

pares

$$13 =$$

múlt de 5: 5, 10, 15, 20, ...

$$73 = 13 \cdot 5 + \textcircled{8}$$

$$\textcircled{C8} \quad \text{lcm}(24, 30) = \underline{\underline{120}}$$

$$24 \cdot 30$$

~~30~~
24: 24, 48, 72, 96, 120

$$\textcircled{C9} \quad \text{lcm}(36, 45) = 180$$

30:
24
5
0

$$36 = 2 \cdot 18 = 2 \cdot 3 \cdot 6 = 2 \cdot 3 \cdot 2 \cdot 3 = 2 \cdot 2 \cdot 3 \cdot 3$$

$$45 = \underline{5 \cdot 3 \cdot 3}$$

36: 36, 72, 108, 144, 180 ?
45: 45, 90, ?, 180 ?

$$\text{lcm} = \underline{2 \cdot 2 \cdot 3 \cdot 3 \cdot 5}$$
$$= 180$$

$$36 \cdot 45$$

$$6 = 2 \cdot 3$$

$$9 = 3 \cdot 3$$

$$12 = 2 \cdot 6 = 2 \cdot 2 \cdot 3$$

$$\textcircled{18} = 2 \cdot 9 = \boxed{2 \cdot 3 \cdot 3}$$