

## Fracciones equivalentes. Fracción irreducible

1.- Indica si son equivalentes las siguientes fracciones, indicando el motivo:

$\frac{3}{5} y \frac{6}{10}$	$\frac{4}{7} y \frac{12}{21}$	$\frac{3}{4} y \frac{9}{11}$	$\frac{8}{7} y \frac{14}{15}$	$\frac{4}{9} y \frac{20}{45}$

2.- Halla el término que falta para que las fracciones sean equivalentes:

$$\frac{3}{7} = \frac{\quad}{14} = \frac{9}{\quad}$$

$$\frac{1}{7} = \frac{\quad}{14} = \frac{3}{\quad}$$

$$\frac{3}{4} = \frac{\quad}{8} = \frac{9}{\quad}$$

$$\frac{4}{5} = \frac{\quad}{10} = \frac{12}{\quad}$$

$$\frac{5}{6} = \frac{\quad}{12} = \frac{15}{\quad}$$

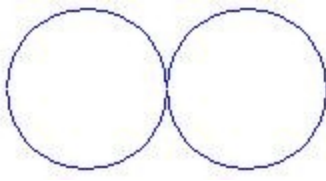
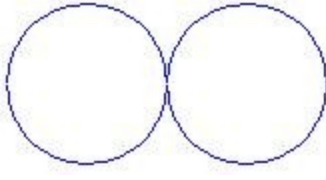
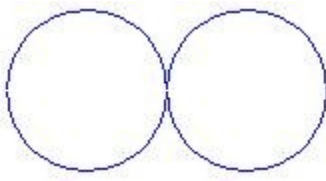
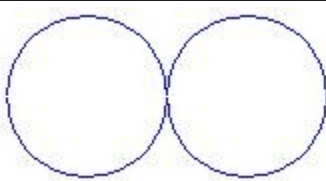
$$\frac{2}{4} = \frac{\quad}{8} = \frac{6}{\quad}$$

$$\frac{2}{3} = \frac{\quad}{6} = \frac{6}{\quad}$$

$$\frac{1}{4} = \frac{\quad}{8} = \frac{3}{\quad}$$

$$\frac{6}{7} = \frac{\quad}{14} = \frac{18}{\quad}$$

3.- Comprueba gráficamente si son equivalentes las fracciones:

$\frac{2}{3} y \frac{6}{9}$	
$\frac{1}{4} y \frac{3}{12}$	
$\frac{1}{2} y \frac{1}{3}$	
$\frac{4}{5} y \frac{5}{4}$	

4.- En la columna izquierda, de la siguiente tabla, se muestran diferentes fracciones que son equivalente a las tres fracciones que se indican en la columna de la derecha. Señala las que sean equivalentes:

$\frac{20}{40}, \frac{10}{12}, \frac{3}{12}, \frac{25}{30}, \frac{2}{10}, \frac{15}{18}, \frac{4}{16}, \frac{3}{15}, \frac{4}{20}, \frac{2}{8}$	$\frac{1}{4} =$
	$\frac{1}{5} =$
	$\frac{5}{6} =$

$\frac{3}{6}, \frac{10}{12}, \frac{2}{6}, \frac{2}{4}, \frac{4}{8}, \frac{15}{18}, \frac{20}{24}, \frac{3}{9}, \frac{4}{12}, \frac{5}{10}$	$\frac{1}{3} =$
	$\frac{5}{6} =$
	$\frac{1}{2} =$

$\frac{2}{10}, \frac{12}{14}, \frac{24}{28}, \frac{18}{21}, \frac{30}{35}, \frac{20}{36}, \frac{15}{27}, \frac{3}{15}, \frac{4}{20}, \frac{10}{18}$	$\frac{5}{9} =$
	$\frac{1}{5} =$
	$\frac{6}{7} =$

$\frac{4}{12}, \frac{3}{9}, \frac{9}{24}, \frac{6}{16}, \frac{15}{40}, \frac{12}{32}, \frac{4}{16}, \frac{3}{12}, \frac{2}{6}, \frac{2}{8}$	$\frac{1}{3} =$
	$\frac{1}{4} =$
	$\frac{3}{8} =$

5.- Completa las fracciones para que sean equivalentes entre si:

$$\frac{7}{8} = \frac{\quad}{16} = \frac{28}{\quad} = -$$

$$\frac{1}{3} = \frac{\quad}{6} = \frac{4}{\quad} = -$$

$$\frac{2}{6} = \frac{\quad}{12} = \frac{16}{\quad} = -$$

$$\frac{1}{4} = \frac{\quad}{8} = \frac{6}{\quad} = -$$

$$\frac{5}{6} = \frac{\quad}{12} = \frac{40}{\quad} = -$$

$$\frac{1}{6} = \frac{\quad}{12} = \frac{10}{\quad} = -$$

$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21} = \frac{8}{24} = \frac{9}{27} = \frac{10}{30} = \frac{11}{33} = \frac{12}{36} = \frac{13}{39} = \frac{14}{42} = \frac{15}{45} = \frac{16}{48} = \frac{17}{51} = \frac{18}{54} = \frac{19}{57} = \frac{20}{60} = \frac{21}{63} = \frac{22}{66} = \frac{23}{69} = \frac{24}{72} = \frac{25}{75} = \frac{26}{78} = \frac{27}{81} = \frac{28}{84} = \frac{29}{87} = \frac{30}{90} = \frac{31}{93} = \frac{32}{96} = \frac{33}{99} = \frac{34}{102} = \frac{35}{105} = \frac{36}{108} = \frac{37}{111} = \frac{38}{114} = \frac{39}{117} = \frac{40}{120} = \frac{41}{123} = \frac{42}{126} = \frac{43}{129} = \frac{44}{132} = \frac{45}{135} = \frac{46}{138} = \frac{47}{141} = \frac{48}{144} = \frac{49}{147} = \frac{50}{150} = \frac{51}{153} = \frac{52}{156} = \frac{53}{159} = \frac{54}{162} = \frac{55}{165} = \frac{56}{168} = \frac{57}{171} = \frac{58}{174} = \frac{59}{177} = \frac{60}{180} = \frac{61}{183} = \frac{62}{186} = \frac{63}{189} = \frac{64}{192} = \frac{65}{195} = \frac{66}{198} = \frac{67}{201} = \frac{68}{204} = \frac{69}{207} = \frac{70}{210} = \frac{71}{213} = \frac{72}{216} = \frac{73}{219} = \frac{74}{222} = \frac{75}{225} = \frac{76}{228} = \frac{77}{231} = \frac{78}{234} = \frac{79}{237} = \frac{80}{240} = \frac{81}{243} = \frac{82}{246} = \frac{83}{249} = \frac{84}{252} = \frac{85}{255} = \frac{86}{258} = \frac{87}{261} = \frac{88}{264} = \frac{89}{267} = \frac{90}{270} = \frac{91}{273} = \frac{92}{276} = \frac{93}{279} = \frac{94}{282} = \frac{95}{285} = \frac{96}{288} = \frac{97}{291} = \frac{98}{294} = \frac{99}{297} = \frac{100}{300}$$

$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30} = \frac{14}{35} = \frac{16}{40} = \frac{18}{45} = \frac{20}{50} = \frac{22}{55} = \frac{24}{60} = \frac{26}{65} = \frac{28}{70} = \frac{30}{75} = \frac{32}{80} = \frac{34}{85} = \frac{36}{90} = \frac{38}{95} = \frac{40}{100} = \frac{42}{105} = \frac{44}{110} = \frac{46}{115} = \frac{48}{120} = \frac{50}{125} = \frac{52}{130} = \frac{54}{135} = \frac{56}{140} = \frac{58}{145} = \frac{60}{150} = \frac{62}{155} = \frac{64}{160} = \frac{66}{165} = \frac{68}{170} = \frac{70}{175} = \frac{72}{180} = \frac{74}{185} = \frac{76}{190} = \frac{78}{195} = \frac{80}{200} = \frac{82}{205} = \frac{84}{210} = \frac{86}{215} = \frac{88}{220} = \frac{90}{225} = \frac{92}{230} = \frac{94}{235} = \frac{96}{240} = \frac{98}{245} = \frac{100}{250}$$

$$\frac{3}{2} = \frac{6}{4} = \frac{9}{2} = \frac{12}{4} = \frac{15}{2} = \frac{18}{4} = \frac{21}{2} = \frac{24}{4} = \frac{27}{2} = \frac{30}{4} = \frac{33}{2} = \frac{36}{4} = \frac{39}{2} = \frac{42}{4} = \frac{45}{2} = \frac{48}{4} = \frac{51}{2} = \frac{54}{4} = \frac{57}{2} = \frac{60}{4} = \frac{63}{2} = \frac{66}{4} = \frac{69}{2} = \frac{72}{4} = \frac{75}{2} = \frac{78}{4} = \frac{81}{2} = \frac{84}{4} = \frac{87}{2} = \frac{90}{4} = \frac{93}{2} = \frac{96}{4} = \frac{99}{2} = \frac{102}{4} = \frac{105}{2} = \frac{108}{4} = \frac{111}{2} = \frac{114}{4} = \frac{117}{2} = \frac{120}{4} = \frac{123}{2} = \frac{126}{4} = \frac{129}{2} = \frac{132}{4} = \frac{135}{2} = \frac{138}{4} = \frac{141}{2} = \frac{144}{4} = \frac{147}{2} = \frac{150}{4} = \frac{153}{2} = \frac{156}{4} = \frac{159}{2} = \frac{162}{4} = \frac{165}{2} = \frac{168}{4} = \frac{171}{2} = \frac{174}{4} = \frac{177}{2} = \frac{180}{4} = \frac{183}{2} = \frac{186}{4} = \frac{189}{2} = \frac{192}{4} = \frac{195}{2} = \frac{198}{4} = \frac{201}{2} = \frac{204}{4} = \frac{207}{2} = \frac{210}{4} = \frac{213}{2} = \frac{216}{4} = \frac{219}{2} = \frac{222}{4} = \frac{225}{2} = \frac{228}{4} = \frac{231}{2} = \frac{234}{4} = \frac{237}{2} = \frac{240}{4} = \frac{243}{2} = \frac{246}{4} = \frac{249}{2} = \frac{252}{4} = \frac{255}{2} = \frac{258}{4} = \frac{261}{2} = \frac{264}{4} = \frac{267}{2} = \frac{270}{4} = \frac{273}{2} = \frac{276}{4} = \frac{279}{2} = \frac{282}{4} = \frac{285}{2} = \frac{288}{4} = \frac{291}{2} = \frac{294}{4} = \frac{297}{2} = \frac{300}{4}$$

6.- Escribe fracciones equivalentes mediante simplificación (dividiendo numerador y denominador):

$$\frac{28}{32} = \frac{7}{8}$$

$$\frac{15}{30} = \frac{1}{2}$$

$$\frac{15}{60} = \frac{1}{4}$$

$$\frac{30}{48} = \frac{5}{8}$$

$$\frac{27}{36} = \frac{3}{4}$$

$$\frac{8}{12} = \frac{2}{3}$$

$$\frac{20}{70} = \frac{2}{7}$$

$$\frac{12}{30} = \frac{2}{5}$$

$$\frac{4}{16} = \frac{1}{4}$$

$$\frac{9}{27} = \frac{1}{3}$$

$$\frac{6}{12} = \frac{1}{2}$$

$$\frac{4}{60} = \frac{1}{15}$$

$$\frac{50}{200} = \frac{1}{4}$$

$$\frac{18}{36} = \frac{1}{2}$$

$$\frac{28}{56} = \frac{1}{2}$$

$$\frac{20}{60} = \frac{1}{3}$$

$$\frac{45}{270} = \frac{1}{6}$$

$$\frac{42}{168} = \frac{1}{4}$$

$$\frac{50}{300} = \frac{1}{6}$$

$$\frac{70}{210} = \frac{1}{3}$$

$$\frac{50}{400} = \frac{1}{8}$$

$$\frac{63}{189} = \frac{1}{3}$$

$$\frac{105}{1155} = \frac{1}{11}$$

$$\frac{27}{216} = \frac{1}{8}$$

$$\frac{63}{126} = \frac{1}{2}$$

$$\frac{70}{140} = \frac{1}{2}$$

$$\frac{63}{315} = \frac{1}{5}$$