

FRACCIONES EQUIVALENTES

Para escribir fracciones equivalentes a una fracción debemos de multiplicar al numerador y denominador por un mismo número.

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

EJERCICIO: Escriba 6 fracciones equivalentes.

$$\frac{3}{5} = \frac{6}{10} = \frac{12}{20} = \frac{18}{30} = \frac{24}{40} = \frac{30}{50} = \frac{36}{60}$$

Justificación:

$$\frac{3}{5} = \frac{6}{10} \text{ ya que } \frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} \quad \frac{3}{5} = \frac{24}{40} \text{ ya que } \frac{3}{5} = \frac{3 \times 8}{5 \times 8} = \frac{24}{40}$$

$$\frac{3}{5} = \frac{12}{20} \text{ ya que } \frac{3}{5} = \frac{3 \times 4}{5 \times 4} = \frac{12}{20} \quad \frac{3}{5} = \frac{30}{50} \text{ ya que } \frac{3}{5} = \frac{3 \times 10}{5 \times 10} = \frac{30}{50}$$

$$\frac{3}{5} = \frac{18}{30} \text{ ya que } \frac{3}{5} = \frac{3 \times 6}{5 \times 6} = \frac{18}{30} \quad \frac{3}{5} = \frac{36}{60} \text{ ya que } \frac{3}{5} = \frac{3 \times 12}{5 \times 12} = \frac{36}{60}$$

$$\frac{4}{7} = \frac{12}{21} = \frac{20}{35} = \frac{28}{49} = \frac{36}{63} = \frac{44}{77} = \frac{56}{98}$$

Justificación:

$$\frac{4}{7} = \frac{12}{21} \text{ ya que } \frac{4}{7} = \frac{4 \times 3}{7 \times 3} = \frac{12}{21} \quad \frac{4}{7} = \frac{36}{63} \text{ ya que } \frac{4}{7} = \frac{4 \times 9}{7 \times 9} = \frac{36}{63}$$

$$\frac{4}{7} = \frac{20}{35} \text{ ya que } \frac{4}{7} = \frac{4 \times 5}{7 \times 5} = \frac{20}{35} \quad \frac{4}{7} = \frac{44}{77} \text{ ya que } \frac{4}{7} = \frac{4 \times 11}{7 \times 11} = \frac{44}{77}$$

$$\frac{4}{7} = \frac{28}{49} \text{ ya que } \frac{4}{7} = \frac{4 \times 7}{7 \times 7} = \frac{28}{49} \quad \frac{4}{7} = \frac{56}{98} \text{ ya que } \frac{4}{7} = \frac{4 \times 14}{7 \times 14} = \frac{56}{98}$$

$$\frac{5}{9} = \frac{10}{18} = \frac{20}{36} = \frac{30}{54} = \frac{40}{72} = \frac{50}{90} = \frac{60}{108}$$

Justificación:

$$\frac{5}{9} = \frac{10}{18} \text{ ya que } \frac{5}{9} = \frac{5 \times 2}{9 \times 2} = \frac{10}{18} \quad \frac{5}{9} = \frac{40}{72} \text{ ya que } \frac{5}{9} = \frac{5 \times 8}{9 \times 8} = \frac{40}{72}$$

$$\frac{5}{9} = \frac{20}{36} \text{ ya que } \frac{5}{9} = \frac{5 \times 4}{9 \times 4} = \frac{20}{36} \quad \frac{5}{9} = \frac{50}{90} \text{ ya que } \frac{5}{9} = \frac{5 \times 10}{9 \times 10} = \frac{50}{90}$$

$$\frac{5}{9} = \frac{30}{54} \text{ ya que } \frac{5}{9} = \frac{5 \times 6}{9 \times 6} = \frac{30}{54} \quad \frac{5}{9} = \frac{60}{108} \text{ ya que } \frac{5}{9} = \frac{5 \times 12}{9 \times 12} = \frac{60}{108}$$

Relacione las fracciones equivalentes de la izquierda con las alternativas de la derecha para que validen la equivalencia de las fracciones.

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ALTERNATIVAS

$$\frac{4}{5} = \frac{24}{15} = \frac{36}{30} = \frac{48}{40}$$

21, 27, 84

$$\frac{3}{7} = \frac{9}{21} = \frac{18}{42} = \frac{36}{63} = \frac{45}{75}$$

12, 45, 60

$$\frac{4}{9} = \frac{16}{36} = \frac{32}{72} = \frac{48}{108} = \frac{64}{144}$$

14, 36, 42

$$\frac{7}{9} = \frac{28}{36} = \frac{49}{54} = \frac{56}{72}$$

72, 48, 64

$$\frac{3}{11} = \frac{6}{22} = \frac{9}{33} = \frac{18}{44} = \frac{27}{55}$$

12, 66, 99