

Nombre:

Fecha:

No uses bolígrafo rojo ni lápiz.

Completa tus respuestas con los cálculos correspondientes, limpios y ordenados.

1. (0,6p) Write as irreducible fractions: *a)* $5,6$ *b)* $5,\widehat{6}$ *c)* $2,1\widehat{6}\overline{3}$

2. (0,4p) Write as decimal numbers: *a)* $\frac{7}{8}$ *b)* $\frac{59}{22}$

3. (1p) Calcula el término desconocido: *a)* $\frac{\square}{18} = \frac{5}{3}$ *b)* $\frac{12}{15} = \frac{8}{\square}$

4. (1p) Order the following fractions from least to biggest by means of the common denominator or calculating the decimal number:

$$\frac{1}{3}, \frac{2}{9}, \frac{4}{15}$$

5. (1p) En una bodega, un sexto de las botellas son de vino blanco, y el resto de vino tinto. Si hay 900 botellas en total, ¿cuántas son de vino tinto?

6. (2p) Calculate, and simplify if possible:

$$a) \frac{1}{4} + \frac{5}{6} =$$

$$b) \frac{4}{9} \cdot \frac{3}{5} \cdot \frac{21}{8} =$$

$$c) \frac{7}{10} - \frac{3}{5} =$$

$$d) \frac{5}{6} \div \frac{4}{15} \div \frac{25}{12} =$$

7. (1p) Calculate, and simplify if possible:

$$a) \frac{1}{4} + \frac{5}{2} \cdot \frac{7}{15} =$$

$$b) \left(\frac{4}{3} - \frac{2}{9} \right) \div \frac{7}{18} =$$

8. (1p) A cycling race has three stages. The first stage is one fifth of the entire race and the second stage is one quarter. What fraction of the race is the last stage?

9. (1p) ¿Cuántos litros de agua son necesarios para para llenar 200 botellas de $\frac{3}{4}$ de litro cada una?

10. (1p) Arancha have bought two fifths of a piece of cheese for sixteen €. How much did the entire piece of cheese cost?

* (1p) Calculate: $a) 3 + 2 \cdot 5 - 6 \div 2 + 1$ $b) 10 + 5 \cdot (-3) - (-6) \div (-2) + (-7)$

1. (0,6p) a) $\frac{56}{10} = \frac{28}{5}$ b) $\frac{51}{9} = \frac{17}{3}$ c) $\frac{2142}{990} = \frac{119}{55}$
2. (0,4p) a) 0,875 b) $2,6\widehat{8}1$
3. (1p) a) $\square = 30$ b) $\square = 10$
4. (1p) $\left\{ \frac{15}{45}, \frac{10}{45}, \frac{12}{45} \right\} = \{0,\widehat{3}, 0,\widehat{2}, 0,2\widehat{6}\} \Rightarrow \frac{2}{9} < \frac{4}{15} < \frac{1}{3}$
5. (1p) Hay $\frac{5}{6} \cdot 900 = 750$ botellas de vino tinto
6. (2p) a) $\frac{13}{12}$ b) $\frac{7}{10}$ c) $\frac{1}{10}$ d) $\frac{3}{2}$
7. (1p) a) $\frac{17}{12}$ b) $\frac{20}{7}$
8. (1p) The last stage is $1 - \left(\frac{1}{5} + \frac{1}{4} \right) = \frac{11}{20}$ of the entire race
9. (1p) Necesitamos $200 \cdot \frac{3}{4} = 150$ litros de agua
10. (1p) The entire piece of cheese cost $\frac{5 \cdot 16}{2} = 40$ €
- * (1p) a) 11 b) -15