

OPERAÇÕES FUNDAMENTAIS

1. Efetue as expressões abaixo:

(a) $3,47 + 18,65$

Handwritten addition of 3,47 and 18,65. The result is 22,12. There are red marks above the 3 and 18 indicating carrying.

$$\begin{array}{r} 3,47 \\ + 18,65 \\ \hline 22,12 \end{array}$$

(b) $17,45 - 3,28$

Handwritten subtraction of 3,28 from 17,45. The result is 14,17. There are red marks above the 17 and 45 indicating borrowing.

$$\begin{array}{r} 17,45 \\ - 3,28 \\ \hline 14,17 \end{array}$$

(c) $2,53 \cdot 4,5$

Handwritten multiplication of 2,53 and 4,5. The result is 11,385. There are red marks above the 2,53 and 4,5 indicating carrying.

$$\begin{array}{r} 2,53 \\ \times 4,5 \\ \hline 1265 \\ + 1012 \\ \hline 11,385 \end{array}$$

(d) $426,8 \div 4$

Handwritten division of 426,8 by 4. The result is 106,7. There are red marks above the 4 and 0 in the divisor.

$$\begin{array}{r} 426,8 \overline{) 40} \\ 4268 \\ \underline{26} \\ 268 \\ \underline{280} \\ 0 \end{array}$$

(e) $\frac{2}{5} + \frac{1}{5}$

Handwritten addition of fractions $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$.

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

(f) $\frac{2}{3} + \frac{1}{4} - \frac{5}{6}$

$$\frac{\frac{2}{\cancel{3}_4} + \frac{1}{\cancel{4}_3} - \frac{5}{\cancel{6}_2}}{12} = \frac{8 + 3 - 10}{12} = \frac{1}{12}$$

3, 4, 6 | 2) x
3, 2, 3 | 2) x
3, 1, 3 | 3)
1, 1, 1 | 12

(g) $\frac{3}{4} \cdot \frac{2}{5}$

$$\frac{3}{4} \cdot \frac{2}{5} = \frac{6 \div 2}{20 \div 2} = \frac{3}{10}$$

(h) $\frac{2}{3} \cdot \frac{3}{2}$

$$\frac{2}{3} \cdot \frac{3}{2} = \frac{6}{6} = 1$$

(i) $\frac{3}{10} \div \frac{2}{5}$

$$\frac{3}{10} \div \frac{2}{5} = \frac{3}{10} \cdot \frac{5}{2} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$$

2. Escreva os números decimais abaixo em forma de fração:

(a) 0,2

$$0,2 = \frac{2 \div 2}{10 \div 2} = \frac{1}{5}$$

(b) 8,17

$$8,17 = \frac{817}{100}$$

(c) 0,008

$$0,008 = \frac{8 \div 8}{1000 \div 8} = \frac{1}{125}$$

(d) 1,0333...

$$1,0333... = \frac{103 - 10}{90} = \frac{93 \div 3}{90 \div 3} = \frac{31}{30}$$

(e) 0,454545...

$$0,454545... = \frac{45 \div 9}{99 \div 9} = \frac{5}{11}$$