Lista de Exerícios 1

1) Calcular as adições e subtrações de frações.

a)
$$\frac{2}{7} + \frac{10}{7} =$$

e)
$$5 + \frac{3}{5} + \frac{8}{10} =$$

b)
$$4\frac{5}{9} - \frac{3}{9} =$$

f)
$$10 - \frac{7}{4} - \frac{5}{6} =$$

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

g)
$$\frac{1}{4} + 6\frac{2}{3} + \frac{5}{6} =$$

d)
$$\frac{5}{3} - \frac{3}{4} =$$

h)
$$5\frac{2}{5} - \frac{1}{3} + \frac{1}{2} =$$

2) Compare as frações.

a)
$$3\frac{2}{7}$$
 e $\frac{10}{7}$ \Rightarrow

a)
$$\frac{10}{18} =$$

b)
$$\frac{5}{9}$$
 e $\frac{3}{9}$ \Rightarrow

b)
$$\frac{6}{14}$$
 =

c)
$$\frac{1}{2}$$
 e $\frac{2}{3}$ \Rightarrow

c)
$$\frac{11}{44}$$
 =

d)
$$\frac{5}{3}$$
 e 2 $\frac{3}{4}$ \Rightarrow

d)
$$\frac{36}{72}$$
 =

4) Efetue os produtos (simplifique antes, se possível).

a)
$$\frac{1}{2} \times \frac{2}{5} =$$

e)
$$\frac{7}{6} \times \frac{32}{21} =$$

b)
$$2\frac{4}{7} \times \frac{3}{2} =$$

f)
$$\frac{8}{9} \times \frac{48}{50} \times \frac{7}{6} =$$

c)
$$\frac{6}{5} \times \frac{5}{4} =$$

g)
$$\frac{10}{12} \times \frac{48}{50} \times \frac{25}{16} =$$

d)
$$\frac{4}{18} \times \frac{9}{6} =$$

h)
$$\frac{2}{7} \times \frac{21}{14} \times \frac{8}{6} =$$

5) Ache os quocientes.

a)
$$\frac{7}{5} \div \frac{3}{10} =$$

e)
$$\frac{1}{3} \div 3 =$$

b)
$$\frac{3}{4} \div \frac{9}{2} =$$

f)
$$\frac{2}{3} \div \frac{10}{12} \div \frac{1}{15} =$$

c)
$$\frac{2}{7} \div \frac{8}{14} =$$

g)
$$4 \div \frac{7}{3} \div 6 =$$

d)
$$\frac{6}{9} \div \frac{4}{15} =$$

h)
$$1 \div \frac{3}{5} \div 10 =$$

6) Determine as potências.

a)
$$\left(\frac{2}{3}\right)^2 =$$

a)
$$\left(\frac{2}{3}\right)^2 =$$
 b) $\left(\frac{1}{2}\right)^3 =$

c)
$$\left(\frac{4}{7}\right)^1 =$$

d)
$$\left(\frac{9}{20}\right)^0 =$$

c)
$$\left(\frac{4}{7}\right)^1 =$$
 d) $\left(\frac{9}{20}\right)^0 =$ e) $\left(\frac{0.3}{0.5}\right)^0 =$

7) Encontre as raízes abaixo.

a)
$$\sqrt{\frac{1}{4}} =$$

a)
$$\sqrt{\frac{1}{4}} =$$
 b) $\sqrt{\frac{9}{25}} =$

c)
$$\sqrt[3]{\frac{8}{27}} =$$
 d) $\sqrt[5]{\frac{1}{32}} =$ e) $\sqrt{\frac{16}{81}} =$

d)
$$\sqrt[5]{\frac{1}{32}} =$$

e)
$$\sqrt{\frac{16}{81}}$$
 =

8) Calcule o valor de cada expressão abaixo.

a)
$$\frac{2}{3} \times \frac{3}{4} + \frac{1}{6} \div \frac{5}{6} =$$

b)
$$1 \div \frac{3}{2} + \frac{4}{9} \times \frac{3}{6} =$$

c)
$$\frac{5}{9} \times \frac{6}{4} - \frac{4}{9} \div \frac{10}{3} =$$

d)
$$\frac{2}{3} + \frac{5}{3} \times \left(\frac{3}{2} - \frac{1}{2}\right) =$$

e)
$$1 + \left\{ \frac{15}{4} - \left[\frac{6}{8} \div \left(\frac{1}{2} + \frac{3}{4} \right) \right] \right\} =$$

f)
$$\frac{1}{10} \times \frac{5}{2} + \frac{1}{3} \div \frac{1}{9} - 3 =$$

g)
$$\frac{1}{2} + \left(\frac{2}{3}\right)^2 \times \sqrt{\frac{1}{4}} - \left(\frac{4}{5}\right)^0 =$$

h)
$$\frac{5}{6} - \left[\left(\frac{2}{5} \right)^1 \times \left(\frac{5}{2} \right)^2 - \sqrt{\frac{9}{16}} \times \frac{1}{2} \right] + 3 =$$

i)
$$10 + \sqrt[3]{\frac{8}{27}} \div \left(\frac{2}{3}\right)^2 - \frac{4}{5} \times \left(\frac{5}{2}\right)^3 =$$

$$j) \quad \left(\frac{36-4\times4+14\div2}{\frac{1}{3}}\right)\div\frac{1}{3} =$$

9) Converta cada número decimal em fração 10) Converta cada fração decimal em número

a)
$$\frac{3}{10} =$$

b)
$$1.3 =$$

b)
$$\frac{5}{100}$$
 =

c)
$$\frac{7}{1000}$$
 =

c)
$$\frac{7}{1000}$$
 =

e)
$$0.485 =$$

d)
$$\frac{56}{10} =$$

e)
$$\frac{43}{1000}$$
 =

f)
$$\frac{1234}{10}$$
 =

g)
$$\frac{51005}{100} =$$

h)
$$\frac{57803}{100}$$
 =

11) Determine a fração geratriz de cada número decimal abaixo.

12) Determine as somas e as subtrações.

a)
$$6.52 + 4.58 =$$

c)
$$10,94 - 6,328 =$$

d)
$$12,345 - 9,12 =$$

e)
$$13.8 + 22.234 + 0.567 =$$

f)
$$7 + 3,45 + 0,432 =$$

g)
$$0.856 - 0.046 =$$

h)
$$0.09 + 4.97 + 5.1 + 0.5 =$$

13) Efetue os produtos.

a)
$$4.5 \times 0.4 =$$

b)
$$3.4 \times 1.2 =$$

c)
$$0.45 \times 0.5 =$$

d)
$$3,25 \times 0,15 =$$

b)
$$0.08:0.04 =$$

c)
$$3.4:0.17=$$

d)
$$10:0,25=$$

e)
$$0.48 \times 0.005 =$$

f)
$$1,047 \times 0,02 =$$

g)
$$25 \times 0.04 =$$

g)
$$77:0,7=$$

Gabarito da Lista de Exercícios 1

1)	a) 12/7		b) 38/	9	c) 37/	6	d) 11/12
('	e) 32/5		f) 89/1	2	g) 31/	4	h) 167/30
2)	a) 23/7 > 10/	7	b) 5/9	> 3/9		c) ½ < 2/3	d) 20/12 < 33/12
3)	a) 5/9	b) 3/7		c) 1/4		d) ½	
	a) 1/5	b) 27/	7	c) 3/2		d) 1/3	
4)	e) 16/9	f) 224/	225	g) 5/4		h) 4/7	
5)	a) 14/3	b) 1/6		c) 1/2		d) 5/2	
	e) 1/9	f) 12		g) 2/7		h) 1/6	
6)	a) 4/9	b) 1/8		c) 4/7		d) 1	e) 1
7)	a) 1/2	b) 3/5		c) 2/3		d) 1/2	e) 4/9
8)	a) 7/10	b) 8/9		c) 7/1	0	d) 7/3	e) 83/20
	f) 1/4	g) - 5/	18	h) 41/	24	i) —1	j) 243
9)	a) 2/10	b) 13/	10	c) 8/1	00	d) 201/1000	e) 485/1000

	f) 3472/100	g) 7345/1000 h) 76434/100								
10)	a) 0,3 f) 123,4	b) 0,05 g) 510,05	c) 0,007 h) 578,03	d) 5,6	e) 0,043					
11)	a) 52/99 f) 1129/33	b) 2/3 g) 5126/999	c) 73/225 h) 2897/4500	•	e) 48073/99900					
12)	a) 11,10 f) 10,882	b) 10,320 g) 0,81	c) 4,612 h) 10,66	d) 3,225	e) 36,601					
13)	a) 1,80 f) 0,02094	b) 4,08 g) 1	c) 0,225 h) 42,5	d) 0,4875	e) 0,0024					
14)	a) 3 f) 5	b) 2 g) 110	c) 20 h) 0,11	d) 40	e) 3,45					