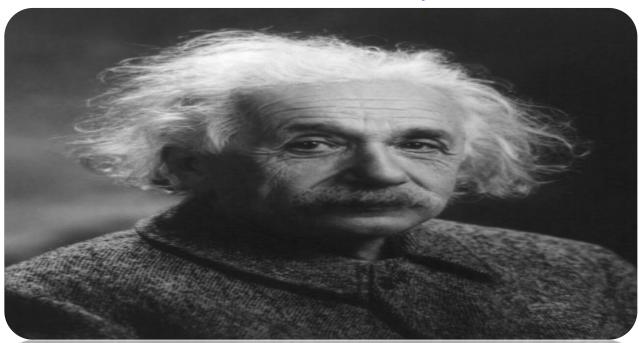


Centro de Formação Científica ALBERT EINSTEIN?

(CACUACO - VIII.A)

Parte 00



Ano lectivo '2011-2012'

Nome do Aluno:

Preparador:

Turno:

Nº de Telefone:



Cálculos Numéricos

- 1°) Achar os números primos compreendidos entre 1 à 201.
- 2°) Decompôr os números de 2 à 105.
- 3°) Encotrar os divisores comuns dos seguintes números:
- a) 18,36 e 108
- b) 132 e 188
- c) 72 e 612
- d) 21 e 281
- a) 010 a (24
- e) 810 e 624
- f) 60 e 45

- g) 142 e 536
- h) 20 e 24
- i) 120 e 96
- j) 44, 56, 63 e 112
- k) 24, 28, 84, 130, 40,60 e 150
- l) 143, 78, 44, 221, 34 e 6
- 4°) Determina por meio da decomposição em factores primos o m.d.c e o m.m.c dos seguintes números:
- a) 28, 119 e 63
- b) 36,72,81 e 126
- c) 35,112 e 56
- d) 24, 48, 16 e 128
- e) 100, 125 e 180

- f) 700,750 e 875
- g) 5083, 11339 e 1955
- h) 225, 250 e 324
- i) 350,910 e 875
- *j*) 4301, 13464 *e* 4625
- 5°) Determina mentalmente o m.m.c dos seguintes números:
- a) 4 e 5
- b) 4 e 6
- c) 25 e 35
- d) 18 e 48
- e) 4,9 e 24

- f) 60 e 80
- g) 27 e 36
- h) 7,12 e 21
- i) 6, 9, 12, 15, 16, 20 e 24
- j) 23, 26, 76, e 81

6°) Preenche o quadro:

m.m.c	24	105	180
а	6	15	90
b			

m.m.c	36	105	180		
а	12	21	60		
b					

- 7°) Quais os números compreendidos entre 100 e 400 que são ao mesmo tempo múltiplos de 9, 12 e 15.
- 8°) Determina respectivamente o menor número que é simultaneamente múltiplo de :
- a) 4 e 5

d) 5,7 e 9

- b) 9 e 15,
- c) 12 e 18,

9°)
$$(+3) + (-4) + (-9)$$

$$10^{\circ}$$
) $(-5) + (-5) + (-5)$

11°)
$$(-9) + (+4) + (-3) + (-8)$$

$$12^{\circ}$$
) $(-7) + (-9) + (-17) + (+19)$

$$13^{\circ}$$
) $(-23) + (+27) + (-9)$

$$14^{\circ}$$
) $(-13) + (-19) + (-24) + (-23) + (+27)$

$$15^{\circ}$$
) $(-9) + (+18) + (-8) + (-3)$

$$16^{\circ}$$
) $(-10) + (-20) + (-24) + (+19)$

$$17^{\circ}$$
) $(-13) + (+19) + (-29) + (-39)$

$$18^{\circ}$$
) $(-18) + (+24) + (+18) + (-24)$

$$(-8) + (-3) + (-19) + (-73) + (-13) + (+26)$$

$$20^{\circ}$$
) $(-11) + (+16) + (-98) + (-115) + (-917) + (71) + (-1235)$

$$21^{\circ}$$
) $(108) + (-107) + (-205) + (+10)$

$$22^{\circ}$$
) $(+111) + (+111) + (-333) + (+222)$

23°)
$$(-20) + (-5) + (-22) + (-11) + (+23)$$

$$24^{\circ}$$
) $(+10) + (-10) + (-0) + (-5) + (-9) + (-0) + (-1)$

$$25^{\circ}$$
) $(-101) + (+10) + (+1) + (+3) + (+4)$

$$26^{\circ}$$
) $(+923) + (-921) + (+922) + (911) + (-5)$

$$(-922) + (-9) + (-96) + (+97) + (-56) + (+58) + (-78)$$

$$28^{\circ}$$
) $(+922) + (+9) + (-96) + (97)$

$$29^{\circ}$$
) $(+11) + (-12) + (-5) + (-5) + (+10)$

$$30^{\circ}$$
) $(+11) + (-72) + (+83) + (-11) + (-32)$

$$31^{\circ}$$
) $(-925) + (+21) + (-71) + (-15)$

$$32^{\circ}$$
) $(-91) + (-97) + (+68) + (-24)$

33°)
$$(+923) + (-29) + (+39) + (-69)$$

$$35^{\circ}$$
) $(+4) + (-5) + (-6) + (+1) + (+79) + (-8) + (-9)$

$$36^{\circ}$$
) $(-12) + (-15) + (-16) + (-23) + (+18)$

$$37^{\circ}$$
) $(-3) + (+5) + (-5) + (+8) + (+1) + (-4) + (+10)$

$$38^{\circ}$$
) $(+20) + (-21) + (+22) + (-23) + (-5) + (+10)$

$$39^{\circ}$$
) $(+87) + (-29) + (+93) + (+13) + (0): (-18)$

$$40^{\circ}$$
) $(-7) + (+9) \cdot (-9) + (+17) \cdot 0 + (-81) + (-42)$

$$41^{\circ}$$
) $-3 - 2 + 3 - 4 + 6$

$$42^{\circ}$$
) $-9 + 14 - 93 - 27 + 17$

$$43^{\circ}$$
) $-19 - 24 - 17 - 17 - 19$

$$44^{\circ}$$
) $-9 + 10 - 11 - 19 - 10 + 9 - 11$

$$45^{\circ}$$
) $-3 - 14 + 24 - 19 - 17 + 13$

$$46^{\circ}$$
) $3 - 4 + 17 - 24 - 29$

$$47^{\circ}$$
) $-2 + 1 - 7 \cdot 4 + 18.6 - 7$

$$48^{\circ}$$
) $-8 + 91 - 17 \cdot 17 - 18 + 18 - 18 \cdot 9$

$$49^{\circ}$$
) $-13 \cdot 96 - 135 - 154 + 568 + 146 \cdot 65 - 582 + -85 \cdot 12$

$$50^{\circ}$$
) $-19 + 32 - 19 - 32 - 24$

$$51^{\circ}$$
) $31 - 37 - 41 - 9 - 1014 - 14 - 56 + 124$

$$52^{\circ}$$
) $14 - 14 \times 4 - 4 \times 3 - 3 + 9$

53°)
$$(-9) + (-17) + (+7) \cdot (-4) + (-142) \div (-71)$$

54°)
$$(-17) + (-19) + (-8) \cdot (+3) + (+0) \div (-7) + (+7) \cdot (-3)$$

55°)
$$(-9) \div (+3) + (-128) \div (+16)$$

$$56^{\circ}$$
) $(-16) + (-19) \cdot (-1) + (+16) + (+1) \cdot (-1) + (+1) + (+4) \cdot (-4)$

$$57^{\circ}$$
) $(-99) \div (+11) + (-777) \div (+7)$

$$58^{\circ}$$
) $(+17) + (-19) + (-1) + (-28) + (+38) \cdot (-3) + (-9) \div (+3)$

59°)
$$(-13) \cdot (+4) + (-9) \cdot (+12) + (-21) \cdot (-7) + (-31) \cdot (-7)$$

$$60^{\circ}$$
) $(-17) \cdot (0) + (-13) \cdot (+24) + (-14) \cdot (-7) + (-87) \cdot (-3)$

61°)
$$(+14) \cdot (+5) + (-17) \cdot (+17) + (-19) \cdot (+12) + (-9) \cdot (+13)$$

$$62^{\circ}$$
) $(+34) \div (+17) + (-2010) + (+588) \div (-6)$

63°)
$$(-2012) \div (-2012) + (+545) \div (+5)$$

$$64^{\circ}$$
) $(-7) \cdot (-3) + (-18) \cdot (+4)$

65°)
$$(+9) \cdot (-3) \cdot (-9) + (-81) \cdot (+9)$$

66°)
$$(-7) \cdot (-7) \cdot (-2) \cdot (-95) \cdot (+45) \cdot (-18) \cdot (-9)$$

67°)
$$(+15) + (-5) \cdot (-7) + (-35) \cdot (-1)$$

$$68^{\circ}$$
) $(+28) + (+38) \cdot (-3) + (-2) \cdot (-1)$

69°)
$$(0) \div (-433) + (0) \div (+1333)$$

70°)
$$(+142) \div (-71) + (-783) \div (+87)$$

71°)
$$(+2010) \div (-10) + (+117) \div (-13)$$

72°)
$$(-1734) \div (-2) + (-56) \div (+8) + (-512) \div (+8)$$

√ Eliminação de Parenteses

73°)
$$(-3) + (+4 - 1 + 5) - (+9)$$

$$74^{\circ}$$
) $[+9 + (-4 + 11) - (11 - 4)] + (-3 + 5)$

75°)
$$(+0) + \{-2 + 4 - [+4 - 1 + (-2 + 3) + 11] + (+25)\}$$

76°)
$$(+3) - \{3\} - (+4 - 9) - 3 \cdot [-4 + 5 \cdot (-2 + 3) - (4 - 1)] \cdot 2\}$$

77°)
$$4 - \{2 + 2[-4 + 2 - (3 - 2 + 4) + (-2 - 1 + 3) + 7] - 7\} + 2$$

78°)
$$(+1-3) + [(-5) \div (-5) + (-3) \cdot 4] - 3 + 1$$

79°)
$$(-4) \cdot 10 - 10 + (-3) \cdot [+7 - 1 + (-8 + 9) - 11 + 3) \cdot 3 + 2$$

80°)
$$[+3 - (+4 + 1 - 5) - 5 \cdot (1 + 1 - 5) \cdot 2] + (-5 + 10 - 11)$$

81°)
$$(+3+8-7)$$
— $7+11+(-81)$

$$82^{\circ}$$
) $-13(7-3) + 8(9-13) - 13(3-7) + 8(-9+13)$

83°)
$$-18 + 4 \cdot (-9 + 8) + 15 \cdot (-8 + 3)$$

$$84^{\circ}$$
) +16 - 17 · (9 - 9) + 16 · (129 - 128)

85°)
$$-7 \cdot (+3 - 14) + (14 - 13) \cdot 7$$

$$86^{\circ}$$
) $(-34) + \{-18 + (-29) - 3 \cdot [+4 - 61 \cdot (48 - 49)]\}$

$$87^{\circ}$$
) $-3 + [-2 + 17 \cdot 3 + 18 \cdot 5 - 16] - (8 + 7 - 3)$

$$88^{\circ}$$
) $-72 \div (-3) + [-3 + 4 \cdot (-5 + 3) + 9] \cdot (-2) \cdot (-3)$

89°)
$$+8-4+\{+58\cdot 3-3+58\cdot (-3)+[-9+4(-3+1)]-5\}$$

90°)
$$-5 + 4 - \{3 + 4 \cdot (+3 - 4) + 5 \cdot (-4 + 3) - 1\} - 3$$

91°)
$$-16 - 13(2 - 1) - 18 + 27 \cdot 0 - 91 \cdot 3$$

92°)
$$-19 + 20 - 24 - 14 - 34 \cdot (3 + 2)$$

93°)
$$-16 + 17(7 - 7) + 16 + (8 - 2) \cdot 6$$

94°)
$$-39 \cdot (+13 - 15) - 39 \cdot (-15 + 13)$$

95°)
$$(+3)$$
 $-8 + (-9) + (+10) + (-1) + (+3)$

96°)
$$(13-17) \cdot 17 - 17 \cdot (13-17)$$

97°)
$$18 + 9 \cdot (9 - 10) + 8 - 3(7 - 10)$$

98°)
$$-17 + (5-4) \cdot 9 - 4(5-6) + (-16)$$

99°)
$$-(+3) + (+8) - (+5) + 5 \cdot [-5 + 3 \cdot (+4 - 17)]$$

$$100^{\circ}$$
) $-1(+9-3) + 5(-3+9) + (-9+3) \cdot 5$

$$101^{\circ}$$
) $-15 + 15 \cdot [-15 + 16(-78 + 77)] + (-16)$

$$102^{\circ}$$
) $(-14) + (+3 + 15) \cdot 5 + (-11) \cdot (-89)$

$$103^{\circ}$$
) $-17 + 17 \cdot (-3 + 6) + 9 \cdot (-9 + 3)$

$$104^{\circ}$$
) {(+3) · (+3) + (+4) · (+4) - [(+39) ÷ (-13) + (+4 + 12)]}

$$105^{\circ}$$
) $[-9 + (+18)] \cdot (-3) + (-5) - [-(+205) + (-3) + (+5)] - 2$

$$106^{\circ}$$
) $[-9 + (+18)] \cdot (-3) + (-81) \div (-3) + (-10) \div (+2)$

107°)
$$\{-(+205) + (+3) + (+5) - [-(+205) + (-3) + (+5)] - 2\}$$

$$108^{\circ}$$
) $(-18) \div (+9) + \{(-303) \div (-3) + (+4 + 5 - 7) \cdot 2 + (+3 + 1 + 5)\}$

$$109^{\circ}$$
) $\{(-1) + (-2) + (-3 + 4 - 5) + [+6 + (-7 + 8)]\} + (-8)$

110°)
$$(-52) \div (-2) + (-56) \div (+2) + (-72) \div (+9) + (-81) \div (-27)$$

111°)
$$[+4-1\cdot(+3+2-1)+2\cdot(-5+4-1)]+(+22)-(-111)$$

112°)
$$\{-8 + 8 \cdot (-9 + 10) + [-4 + 4 \div (-2)] + (+92 - 101)\}$$

113°)
$$(-210) \cdot 3 + (+100) \cdot 3 + (-50) \div (+10)$$

114°)
$$\{(+16) \cdot (-2) + (+13) \cdot (+11) - 14\} \cdot 0 + (+0) \cdot (+98)$$

115°)
$$(-303) \div (-3) - 9 + (+18)5 + 16(-78 + 77)(13 - 17) \cdot 17 - 17$$



✓ Dizimas

- 116°) Transformar as seguintes dizimas em fracção:
 - a) $0,75 e 0, \overline{75}$
 - b)0,8181
 - c) 0,3003003003
 - d) $0,43 e 0, \overline{43}$
 - *e*) 0,5252
 - f) 0,002002002
 - g) 0,832 e 0,43(239)
 - h) 12, $\overline{431}$; 0, $\overline{194}$ e 11,89 $\overline{53}$
 - *i*) 0,2305; 45,23(028); 23,567
- 117°) Resolver os seguintes exercícios:
 - a) 15,72 3 + 0,82 11,97
 - (b) 357,45 + 37 35,74 21,8
 - c) 91,724 2,587 + 1,723 91,724
 - d) 200 0.45 0.045 45 4.5
 - e) 0,43 + 0,534 0,832 43,239 + 23,567
 - f) 17,03 5,87 11 + 0,24
 - g) 583,7 11 235,42 350,71
 - h) 100 0,025 0,25 2,5 25
 - i) 63,004 + 23,97 + 18,4 15,03
 - j) 456,25 + 235,840 214,54 46,23 245,25
 - k) 132,7 + 18,54 + 11,41 + 125,8
 - *l*) 154,1 15,4 1,5 1,0
 - $m) \ 0.05824 0.00528 0.04516$
 - n) 114,73 + 97,27 + 101,01 + 20,02
 - o) 98,7 9,87 0,98,0,09
 - p(-2,85) + (+97) + (+41,37) + (-13,96) + (+17,69) + (-0,11)
 - q) (+12,28) + (-8,75) + (+101,50) + (-0,25) + (+0,25)
 - r) (+3,3) + (-12,8) + (-31,6) + (+59,8) + (-8,7) + (-5,54)
 - s) (+473,63) (+208,17) (-89,41) (-17,09) + (+473,65)
 - t) (+25,15) + (-22,30) + (-12,15) (+1,25) + (+215,099)
 - u) 0,3 + 0,77 + 1,82
 - v) 0.7 + 0.33 + 1.98
 - (w)0,7 + 0,98 + 11,2 + 7,23

$$x) 0,93 + 9,712 + 4,3 + 0,2 + 0,1$$

$$y)$$
 12,19 + 11,2 + 0,002 + 0,77 + 11,01

$$z$$
) $0.041 + 13.82 + 0.55 + 7.22$

$$aa)$$
 0,17 + 0,00017 + 0,017 + 0,0017 + 1,7

$$bb)$$
 0,021 + 0,0021 + 0,21 + 0,00021

$$cc)$$
 18,28 + 19,72 + 0,43 + 5,55 + 10,02

$$dd$$
) 2,88 $-$ 0,33 $-$ 1,47

$$ee$$
) $0.044 - 0.013 - 0.009 - 0.18$

$$(ff)$$
 23,8 $-$ 20,9 $-$ 2,09 $-$ 0,209

$$gg)$$
 2,074 $-$ 1,382 $-$ 0,377 $-$ 0,208

hh)
$$15,008 - 7,403 - 0,0201 - 3,004$$

$$ii)0,08208 - 0,00987 - 0,07102$$

$$jj$$
) 2700,4 $-$ 328,9 $-$ 1999,8 $-$ 32,07

$$kk$$
) 3,07 - 0,98 - 2,07

$$ll)0,0098 - 0,0002 - 0,0076 - 0,001$$

$$mm$$
) 33,4 $-$ 28,7 $-$ 2,87 $-$ 0,287

$$nn$$
) $1,021 - 0,8074 - 0,0928 - 0,1$

$$00)$$
 11,003 $-2,807 - 5,041 - 3,027$

$$pp)$$
 2500,8 $-$ 1328,7 $-$ 13,5 $-$ 1111,1

118°) Calcular a média aritmética dos seguintes números decimais:

119°) Calcular por escrito e arredonda convenientemente o resultado obtido:

a)
$$15,2 \times 14,8 \times 5,3$$

$$b)$$
 4,02 × 5.4 × 6

c)
$$4,02 \times 5,40 \times 6,00$$

d)
$$3,217 \times 2,028 \times 5,304$$

$$e)$$
 12,8 × 13,2 × 4,7

$$f) 5,03 \times 4,4 \times 8$$

$$g)5,03 \times 4,40 \times 8,00$$



i)
$$(3,288 \div 4,11) \div 2,00$$

$$j)$$
 3,288 ÷ (4,11 ÷ 2,00)

$$k)$$
 (24,3 ÷ 8,1) ÷ 3,0

$$l)$$
 24,3 ÷ (8,1 ÷ 3,0)

$$m)$$
 (2,877 ÷ 4,11) ÷ 3,50

$$n) 2,877 \div (4,11 \div 3,50)$$

$$o)(36,0 \div 7,45) \div 5,4$$

$$(p)$$
 36,0 ÷ (7,45 ÷ 5,4)

120°) Resolve os seguintes números decimais:

a)
$$5,28 \times 3,17 - 11,28$$

$$(b)$$
 5,28 × (3,17 – 11,28)

c)
$$5,28 \times (3,17 + 1,28)$$

$$d)$$
 6,37 × 2,74 $-$ 12,43

$$e)$$
 6,37 × (2,74 – 12,43)

$$f)$$
 6,37 × (2,74 + 2,43)

$$g)3,28 \times 4,21 + 17,21 \times 2,08$$

$$h)$$
 3,28 × (4,21 + 17,21) × 2,08

$$i)$$
 5,34 × 2,07 + 11,03 × 4,2

$$j)$$
 5,34 × (2,07 + 11,03) × 4,2



Fracções

- 1º) Simplificar as seguintes fracções tornando as irredutíveis:

 $x) \frac{17 \times 3 \times 9}{6 \times 51 \times 15}$

 $m) \frac{123}{321}$

 $s) \frac{513}{864}$

 $n)\frac{64}{56}$

 $t)\ \frac{11}{36}$

 $o)\frac{7}{15}$

 $u)\frac{130}{65}$

 $p)\frac{87}{111}$

- $v)\frac{105}{75}$
- 2°) Modifica as fracções de modo que a obteres com fracções com o mesmo denomnador:
 - $a) \frac{3}{5} e^{\frac{3}{4}}$
 - $b)\frac{8}{11}e^{\frac{55}{77}}$
 - $(c)^{\frac{2}{3}}e^{\frac{6}{7}}$
 - $d)\frac{2}{9}e\frac{8}{36}$
 - $e)\frac{7}{16}e\frac{3}{64}$
 - $f) \frac{5}{12} e^{\frac{3}{8}}$
 - $(g)\frac{15}{36}e^{\frac{11}{24}}$

 - *i*) $\frac{13}{15}e^{\frac{7}{10}}$

 - $k)\frac{5}{18}e^{\frac{3}{27}}$
 - $l) \frac{7}{120} e^{\frac{1}{12}}$
 - $m) \frac{11}{12}e^{\frac{12}{13}}$
 - $n)\frac{0}{5}e^{\frac{3}{35}}$

- r) $\frac{2}{3}$, $\frac{3}{4}$ e $\frac{4}{5}$ s) $\frac{1}{2}$, $\frac{2}{3}$ e $\frac{3}{4}$ t) $\frac{1}{5}$, $\frac{3}{15}$, $\frac{7}{35}$ e $\frac{10}{50}$
- $u)\frac{3}{10},\frac{4}{100},\frac{5}{1000}e^{\frac{6}{10000}}$
- $v)\frac{7}{15},\frac{11}{60},\frac{13}{45}e^{\frac{9}{50}}$
- $(w)^{\frac{2}{7}}, \frac{1}{5}, \frac{7}{20}, \frac{6}{35}e^{\frac{1}{14}}$
- $(x)\frac{5}{12},\frac{7}{36},\frac{5}{48}e^{\frac{17}{120}}$
- $y)\frac{27}{26},\frac{11}{65},\frac{5}{52},\frac{17}{130}e^{\frac{5}{13}}$
- $z)\frac{5}{35},\frac{9}{66},\frac{12}{110},\frac{15}{99}e^{\frac{1}{55}}$
- aa) $\frac{3}{45}$, $\frac{17}{18}$, $\frac{21}{72}$, $\frac{100}{180}$ e $\frac{7}{36}$



$$a)\frac{3}{8}$$

$$b)\frac{113}{8}$$

$$b)\frac{113}{40}$$

$$c)\frac{2}{9}$$

$$e) \frac{55}{12}$$









$$j)\ \frac{171}{20}$$

$$k)\frac{57}{10}$$

$$l) \frac{10}{5}$$

$$m) \quad \frac{3}{10}$$

$$n)\frac{3}{100}$$

$$o)\frac{7}{1000}$$
$$p)\frac{7}{10}$$

$$q$$
) $\frac{2}{1000000}$

$$r)\frac{\overline{5}}{2}$$

$$s)\frac{3}{5}$$

$$t) \frac{12}{8}$$

$$(u)^{\frac{2}{5}}$$

$$v)\frac{3}{25}$$

$$w)\frac{32}{50}$$

$$x)\frac{7}{40}$$

$$y)\frac{21}{20}$$

$$z)\frac{9}{40}$$

$$aa) \frac{3}{20}$$

$$bb) \ \frac{17}{200}$$

4°) Calcular e em seguida simplifica o resultado a fim de obteres fracções irredutiveis:

$$i. \quad \frac{1}{2} + \frac{1}{4}$$

ii.
$$\frac{4}{5} + \frac{1}{10}$$

$$iii. \quad \frac{1}{6} + \frac{5}{18}$$

$$iv. \quad \frac{3}{4} + \frac{1}{8}$$

$$v. \frac{1}{4} + \frac{7}{10}$$

vi.
$$\frac{1}{3} + \frac{1}{4}$$

vii.
$$\frac{5}{12} + \frac{5}{8}$$

viii.
$$\frac{3}{7} + \frac{1}{3}$$

$$ix. \quad \frac{1}{5} + \frac{1}{10}$$

$$x. \quad \frac{5}{6} + \frac{6}{21}$$

$$xi. \quad \frac{4}{7} + \frac{1}{4}$$

xii.
$$\frac{3}{3} + \frac{7}{16}$$

xiii.
$$\frac{1}{4} + \frac{5}{20}$$

xiv.
$$\frac{2}{5} + \frac{3}{7}$$

xv.
$$\frac{2}{9} + \frac{5}{18}$$

xvi.
$$\frac{1}{5} + \frac{4}{30}$$

xvii.
$$\frac{3}{2} + \frac{2}{5}$$

xviii.
$$\frac{7}{2} + \frac{2}{5}$$

$$xix. \quad \frac{1}{4} + \frac{7}{10}$$

$$xx. \quad \frac{1}{4} + \frac{7}{10}$$

xxi.	$\frac{3}{10} + \frac{11}{30}$	
xxii.	$\frac{2}{5} + \frac{3}{8}$	
xxiii.	$\frac{2}{7} + \frac{4}{11}$	
xxiv.	$\frac{7}{10} + \frac{1}{20}$	
xxv.	$\frac{34}{35} + \frac{24}{25}$	
xxvi.	$\frac{1}{120} + \frac{1}{12}$	
xxvii.	$\frac{3}{8} + \frac{13}{64}$	
xxviii.		
xxix.	$\frac{39}{40} + \frac{49}{50}$	
xxx.	$\frac{1}{110} + \frac{1}{11}$	
xxxi.	$\frac{2}{9} + \frac{27}{81}$	
xxxii.	$\frac{\frac{2}{9} + \frac{27}{81}}{\frac{2}{65} + \frac{4}{39}}$	
xxxiii.	$\frac{3}{4} + \frac{1}{4}$	\ (
xxxiv.	$\frac{1}{5} - \frac{1}{10}$	1 (4)
xxxv.	$\frac{1}{10} - \frac{1}{5}$	1.
xxxvi.	1 1	9,
xxxvii.	$\frac{3}{3} - \frac{7}{4}$ $\frac{3}{8} - \frac{3}{12}$	
xxxviii.	$\frac{4}{15} - \frac{1}{5}$	
xxxix.	$\frac{11}{12} - \frac{5}{6}$	
xl.	$\frac{7}{18} - \frac{5}{12}$	
xli.	$\frac{5}{12} - \frac{7}{18}$	
xlii.	$\frac{4}{5} - \frac{1}{5}$	

$$xliv. \quad \frac{1}{8} - \frac{1}{4}$$

$$xlv. \quad \frac{1}{5} - \frac{1}{4}$$

$$xlvi. \quad \frac{5}{6} - \frac{3}{8}$$

$$xlvii. \quad \frac{5}{16} - \frac{1}{4}$$

$$xlviii. \quad \frac{13}{14} + \frac{6}{7}$$

$$xlix. \quad \frac{11}{20} - \frac{8}{15}$$

$$l. \quad \frac{8}{15} - \frac{11}{20}$$

$$li. \quad \frac{21}{54} - \frac{19}{48}$$

$$lii. \quad \frac{12}{120} - \frac{19}{48}$$

$$liii. \quad \frac{12}{13} - \frac{11}{13}$$

$$liv. \quad \frac{12}{13} - \frac{15}{17}$$

$$lvi. \quad \frac{12}{32} - \frac{15}{17}$$

$$lvii. \quad \frac{150}{32} - \frac{150}{24}$$

$$lviii. \quad \frac{150}{63} - \frac{12}{48}$$

$$lxii. \quad \frac{15}{63} - \frac{17}{81}$$

$$lxii. \quad \frac{15}{63} - \frac{17}{81}$$

$$lxii. \quad \frac{35}{65} - \frac{25}{65}$$

$$lxii. \quad \frac{11}{36} - \frac{12}{33}$$

$$lxiii. \quad \frac{19}{75} - \frac{11}{45}$$

$$lxiii. \quad \frac{35}{45} - \frac{28}{36}$$

$$lxiv. \quad \frac{3}{4} \times \frac{3}{5}$$

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xliii. $\frac{1}{4} - \frac{1}{8}$

"Faça as coisas o mais simples que você puder porém, não as mais símples" disse o *Albert Einstein*.

lxv.

lxvi.

		Cacuaco – Vila (<i>924845</i>)
lxvii.	$\frac{1}{5} \times \frac{5}{1}$	
lxviii.	$\frac{1}{2} \times \frac{3}{8}$	
lxix	$\frac{2}{7} \times \frac{5}{7}$	
lxx.	$\frac{2}{3} \times \frac{3}{4}$	
lxxi.	$\frac{7}{4} \times \frac{2}{3}$	
lxxii.	$\frac{2}{5} \times \frac{3}{5}$	
lxxiii.	$\frac{2}{7} \times \frac{1}{8}$	
lxxiv.	$\frac{3}{11} \times \frac{12}{11}$	
lxxv.	$\frac{8}{15} \times \frac{15}{8}$	
lxxvi.	$\frac{3}{8} \times \frac{1}{7}$	
lxxvii.	$\frac{4}{13} \times \frac{14}{13}$. (
lxxviii.	$\frac{11}{13} \times \frac{13}{11}$	SNS
lxxix.	$\frac{5}{3} \times \frac{7}{6}$	
lxxx.	$\frac{7}{2} \times \frac{3}{4}$	14.1
lxxxi.	$\frac{9}{11} \times \frac{9}{13}$	Mr. C.
lxxxii.	$\frac{13}{4} \times \frac{15}{26}$	C M
lxxxiii.	$\frac{11}{17} \times \frac{16}{17} \\ \frac{5}{8} \times \frac{11}{3}$	Mello
lxxxiv.	$\frac{5}{8} \times \frac{11}{3}$	
lxxxiv.	$\frac{0}{3} \times \frac{11}{28}$)
	$\frac{2}{19} \times \frac{18}{19}$	
lxxxvii.		
lxxxviii.	$\frac{3}{7} \times \frac{17}{51}$	
	$\frac{13}{27} \times \frac{9}{26}$	

$$xc. \quad \frac{5}{14} \times \frac{70}{55}$$

$$xci. \quad \frac{7}{3} \times 5\frac{1}{4}$$

$$xcii. \quad \frac{12}{18} \times 1\frac{1}{2}$$

$$xciii. \quad 2\frac{1}{5} \times \frac{5}{11}$$

$$xciv. \quad 3\frac{2}{4} \times \frac{20}{21}$$

$$xcv. \quad \frac{11}{18} \times 3\frac{3}{5}$$

$$xcvi. \quad \frac{17}{24} \times 5\frac{20}{34}$$

$$xcvii. \quad \frac{35}{8} \times \frac{22}{100}$$

$$xcviii. \quad \frac{35}{8} \times \frac{36}{25}$$

$$xcix. \quad \frac{15}{26} \times \frac{65}{75}$$

$$c. \quad \frac{9}{12} \times \frac{96}{81}$$

$$cii. \quad \frac{1}{4} \div \frac{1}{3}$$

$$cii. \quad \frac{1}{4} \div \frac{1}{3}$$

$$civ. \quad \frac{1}{6} \div \frac{11}{12}$$

$$cv. \quad \frac{11}{12} \div \frac{1}{6}$$

$$cvii. \quad \frac{1}{4} \div \frac{1}{3}$$

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27 ^ 26

"Faça as coisas o mais simples que você puder porém, não as mais símples" disse o *Albert Einstein*.

 $\frac{63}{18} \div \frac{54}{21}$

cxi.

cxii.

		Cacado VIIa (92 10 10 900, 92 02 0	00100 0 0202111
cxiii.	$4\frac{3}{5} \div \frac{46}{15}$	cxxxv.	$\frac{3}{8} + \frac{9}{11} + \frac{1}{4}$
cxiv.	$\frac{112}{77} \div \frac{28}{33}$	cxxxvi.	$\frac{11}{15} + \frac{18}{25} + \frac{4}{5}$
cxv.	$5\frac{4}{7} \div \frac{39}{13}$	cxxxvii.	$\frac{3}{5} + \frac{9}{10} + \frac{11}{18}$
cxvi.	$4\frac{3}{2} \div \frac{22}{7}$	cxxxviii.	$\frac{8}{7} + \frac{7}{8} + \frac{55}{56}$
cxvii.	$6\frac{3}{5} \div \frac{22}{10}$		$\frac{3}{5} + \frac{5}{7} + \frac{7}{9}$
cxviii.	$\frac{420}{66} \div \frac{84}{96}$	cxl.	$\frac{11}{24} + \frac{17}{36} + \frac{7}{9}$
cxix.	$\frac{63}{56} \div \frac{36}{32}$	cxli.	$\frac{11}{24} + \frac{19}{22} + \frac{27}{40}$
cxx.	$\frac{63}{32} \div \frac{56}{36}$	cxlii.	$\frac{21}{12} - \frac{5}{4} - \frac{1}{2}$
cxxi.	$\frac{63}{56} \div \frac{32}{36}$	cxliii.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
cxxii.	$\frac{26}{55} \div \frac{65}{77}$	cxliv.	0 11 /
cxxiii.	$\frac{13}{64} \div \frac{169}{8}$	cxlv.	$\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4}$ $\frac{5}{2} \times \frac{4}{3} \times \frac{3}{4}$ $\frac{13}{37} \times \frac{0}{11} \times \frac{28}{29}$
cxxiv.	$\frac{51}{37} \div \frac{17}{74}$	cxlvi.	$\frac{5}{2} \times \frac{4}{3} \times \frac{3}{4}$
cxxv.	$\frac{11}{15} \div \frac{44}{45}$	cxlvii.	$\frac{13}{37} \times \frac{0}{11} \times \frac{28}{29}$
cxxvi.	$\frac{51}{37} \div \frac{17}{74}$	cxlviii.	$\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$
cxxvii.	$\frac{10}{21} \div \frac{112}{106}$	cxlix.	$\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$ $\frac{1}{5} \times \frac{1}{4} \times \frac{1}{3}$
cxxviii.	$\frac{11}{2} \div \frac{7}{2}$	cl.	$\frac{8}{3} \times \frac{7}{11} \times \frac{3}{8}$
cxxix.	$\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$		$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$
cxxx.	$\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$ $\frac{3}{1} + \frac{2}{2} + \frac{1}{3}$	clii.	$\frac{8}{51} \times \frac{15}{17} \times \frac{0}{31}$
cxxxi.	$\frac{5}{6} + \frac{3}{8} + \frac{3}{4}$	cliii.	$\frac{87}{564} \times \frac{56}{12} \times \frac{3}{4}$
cxxxii.	$\frac{1}{6} + \frac{1}{5} + \frac{1}{4}$		$\frac{6}{7} + \frac{7}{6} + \frac{41}{42}$
	$\frac{1}{4} + \frac{2}{2} + \frac{3}{1}$		$\frac{2}{4} + \frac{4}{6} + \frac{6}{8}$
cxxxiv.	$\frac{9}{10} + \frac{4}{5} + \frac{1}{2}$		
clvi.	$\frac{1}{2} + \frac{1}{4} + \frac{3}{5}$	$+\frac{7}{15}+\frac{9}{20}+\frac{5}{8}+\frac{9}{10}$	
	PRIL 18.00 . PRIL	A . M. V.	

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"Faça as coisas o mais simples que você puder porém, não as mais símples" disse o *Albert Einstein*.

clvii.
$$\frac{3}{8} + \frac{7}{12} + \frac{11}{20}$$

clviii.
$$\frac{11}{45} + \frac{7}{12} + \frac{19}{30} + \frac{3}{10} + \frac{5}{6} + \frac{13}{15}$$

clix.
$$\frac{11}{16} + \frac{8}{12} + \frac{5}{8} + \frac{17}{24} + \frac{111}{60}$$

$$clx. \quad \frac{67}{144} - \frac{1}{12} - \frac{11}{60}$$

$$clxi. \quad \frac{70}{130} - \frac{25}{91} - \frac{3}{26}$$

clxii.
$$\frac{101}{28} - \frac{203}{70} - \frac{2}{35}$$

clxiii.
$$\frac{53}{50} - \frac{9}{10} - \frac{1}{15} - \frac{7}{75}$$

clxiv.
$$\frac{4}{5} + \frac{3}{10} + \frac{5}{12} + \frac{19}{30} + \frac{1}{3} + \frac{5}{6} + \frac{3}{4}$$

clxv.
$$\frac{3}{4} + \frac{5}{9} + \frac{5}{6} + \frac{7}{12} + \frac{2}{3} + \frac{1}{2}$$

clxvi.
$$\frac{4}{7} + \frac{1}{6} + \frac{9}{14} + \frac{5}{12} + \frac{16}{21} + \frac{1}{3} + \frac{7}{8}$$

clxvii.
$$\frac{5}{16} + \frac{8}{5} + \frac{31}{48} + \frac{8}{15} + \frac{3}{5} + \frac{11}{12} + \frac{11}{24}$$

clxviii.
$$\frac{39}{18} - \frac{50}{45} - \frac{11}{36} - \frac{81}{90}$$

clxix.
$$\frac{7}{15} + \frac{8}{75} + \frac{4}{25} + \frac{11}{45} + \frac{161}{150} + \frac{23}{50}$$

$$clxx. \quad \frac{7}{15} - \frac{3}{8} - \frac{1}{60} - \frac{40}{40}$$

clxxi.
$$\frac{5}{12} - \frac{3}{8} - \frac{1}{32} - \frac{1}{96}$$

clxxii.
$$\frac{17}{66} - \frac{3}{44} - \frac{2}{33} - \frac{7}{55}$$

5°) Escreve os seguintes números sob a forma de fracções irredutiveis:

i.
$$\frac{3}{7} + 0.7$$

i.
$$\frac{3}{7} + 0.7$$
ii. $\frac{9}{12} + 3.68$

iii.
$$1,9 + \frac{7}{25}$$

iv.
$$\frac{461}{50} + 2,6$$

$$v. \quad 0.9 + \frac{2}{3}$$

vi.
$$0.6 + \frac{2}{3}$$

vii.
$$\frac{11}{3} + 0.89$$

viii.
$$0,39 + \frac{11}{13}$$

ix.
$$0.8 - \frac{7}{10}$$

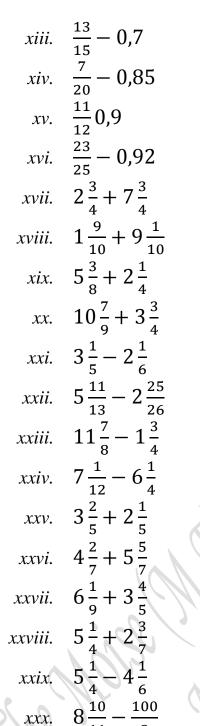
x.
$$0.92 - \frac{4}{5}$$

xi.
$$0.6 - \frac{3}{10}$$

xii.
$$0,68 - \frac{3}{4}$$

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$$xxxi. \quad \frac{13\frac{4}{5} - 10\frac{7}{10}}{xxxii.}$$

$$xxxii. \quad \frac{17,43}{5,42} + 4,55$$

$$xxxiii. \quad \frac{17,43+4,55}{5,42}$$

$$xxxiv. \quad \frac{17,13}{5,42+4,55}$$

$$xxxv. \quad \frac{25,98}{6,32} - 5,62$$

$$xxxvii. \quad \frac{25,98-5,62}{6,32}$$

$$xxxviii. \quad \frac{5,28}{4,33} + \frac{7,08}{5,44}$$

$$xxxix. \quad \frac{8,44}{5,07} + \frac{11,07}{4,54}$$

$$xl. \quad \frac{5,28+7,08}{4,33+5,44}$$

$$xli. \quad \frac{8,44+11,07}{5,07+4,54}$$

$$xlii. \quad \frac{8,44+(5,07+11,07)}{4,54}$$

$$xliii. \quad \frac{5,28+(4,33+7,08)}{5,44}$$

$$xliv. \quad \frac{7}{12} + 0,35 + 0,45 + \frac{9}{20}$$

$$xlv. \quad \frac{9}{7} + 11,5 + \frac{3}{2}$$

$$xlvi. \quad \frac{2}{15} + 1,47 + 3,24 + \frac{1}{2}$$

6°) Completa o quadro seguinte:

а	b	a + b	a-b	b-a	$a \times b$	$a \div b$	$b \div a$	$a \times a$	$b \times b$
1	4								
$\frac{1}{2}$	3								
6	7								
<u>-</u>	8								
11	7								
5	3								
5	7								
$\overline{12}$	$\overline{20}$								
15	4							7 47	
18	15							10,7	

7°) Calcula por meio dos números indicados nos exercícios as seguintes expressões. a + b; a + b + c; a - b; b - c; $a \times b$; $a \times c$; $a \times b$; $a \times b + c$; $a \div b$; $a \div c$; $(a + b) \times c$; $(a - b) \times c$; $a + b \times c$ e $a - b \times c$ onde:

a)
$$a = \frac{3}{4}$$
; $b = \frac{7}{8}$; $c = \frac{5}{3}$

d)
$$a = \frac{5}{6}$$
; $b = \frac{15}{8}$; $c = \frac{20}{16}$

b)
$$a = \frac{7}{12}$$
; $b = \frac{2}{5}$; $c = \frac{2}{15}$

e)
$$a = \frac{5}{12}$$
; $b = \frac{8}{15}$; $c = \frac{7}{10}$

c)
$$a = \frac{2}{7}$$
; $b = \frac{5}{21}$; $c = \frac{3}{15}$

f)
$$a = \frac{15}{12}$$
; $b = \frac{18}{122}$; $c = \frac{62}{110}$

✓ Calcule:

8°)
$$\frac{5}{2} \times \left(\frac{3}{4} + \frac{1}{3}\right)$$

9°)
$$\frac{7}{4} \times \left(\frac{1}{5} + \frac{2}{3}\right)$$

10°)
$$\frac{8}{11} \times \left(\frac{7}{4} - \frac{3}{8}\right)$$

11°)
$$\frac{17}{91} \times \left(\frac{12}{30} - \frac{4}{10}\right)$$

12°)
$$\frac{3}{7} \times \left(\frac{11}{4} + \frac{1}{5}\right)$$

13°)
$$\frac{8}{5} \times \left(\frac{3}{7} + \frac{1}{4}\right)$$

14°)
$$\frac{5}{13} \times \left(\frac{54}{20} + \frac{1}{10}\right)$$

15°)
$$\frac{11}{13} \times \left(\frac{2}{5} + \frac{3}{5}\right)$$

16°)
$$\left(\frac{3}{4} + \frac{2}{4}\right) \times \frac{5}{3}$$

17°)
$$\left(\frac{1}{2} + \frac{1}{3}\right) \times \frac{15}{4}$$

18°)
$$\left(\frac{7}{5} + \frac{3}{4}\right) \times \frac{15}{43}$$

19°)
$$\left(\frac{4}{7} + \frac{3}{4}\right) \times \frac{15}{43}$$

20°)
$$\left(\frac{4}{7} + \frac{1}{14}\right) \times 1\frac{5}{9}$$

21°)
$$\left(\frac{2}{3} + \frac{1}{3}\right) \times \frac{2}{5}$$

22°)
$$\left(\frac{1}{3} + \frac{1}{4}\right) \times \frac{18}{13}$$

23°)
$$\left(\frac{9}{8} + \frac{18}{45}\right) \times \frac{23}{36}$$

$$24^{\circ}$$
) $\left(\frac{8}{9} + \frac{1}{18}\right) \times 1\frac{1}{17}$

25°)
$$\left(\frac{7}{11} - \frac{2}{11}\right) \times \frac{23}{25}$$

$$26^{\circ}$$
) $\left(\frac{8}{3} - \frac{2}{5}\right) \times \frac{12}{17}$

$$27^{\circ}$$
) $\left(\frac{8}{13} - \frac{2}{3}\right) \times \frac{3}{5}$

28°)
$$\left(\frac{13}{11} - \frac{11}{13}\right) \times 5\frac{1}{3}$$

29°)
$$\left(\frac{4}{7} - \frac{1}{7}\right) \times \frac{35}{25}$$

$$30^{\circ}$$
) $\left(\frac{7}{4} - \frac{2}{5}\right) \times \frac{20}{27}$

31°)
$$\left(3\frac{2}{5} - \frac{8}{15}\right) \times \frac{15}{43}$$

32°)
$$\frac{5}{2} \times \left(\frac{11}{5} - \frac{5}{11}\right)$$

33°)
$$\frac{7}{3} \times \left(\frac{3}{5} - \frac{1}{6}\right)$$

34°)
$$\frac{5}{2} \times \frac{11}{5} - \frac{5}{11}$$

35°)
$$\frac{3}{4} \times \left(2 - \frac{2}{5}\right)$$

$$36^{\circ}$$
) $\frac{3}{4} \times 2 - \frac{2}{5}$

37°)
$$2\frac{3}{7} \times \left(\frac{8}{3} - 2\right)$$

38°)
$$2\frac{3}{7} \div \frac{8}{3} - 2$$

39°)
$$\frac{5}{3} \times \left(4 - \frac{7}{4}\right)$$

$$40^{\circ}$$
) $\frac{5}{3} \times 4 - \frac{7}{4}$

41°)
$$\left(\frac{3}{5} + \frac{1}{4}\right) \times \left(\frac{2}{3} + \frac{1}{2}\right)$$

42°)
$$\left(\frac{3}{4} + \frac{1}{5}\right) \times \left(\frac{1}{3} + \frac{3}{2}\right)$$

43°)
$$\frac{3}{4} + \frac{1}{5} \times \frac{1}{3} + \frac{3}{2}$$

44°)
$$\frac{3}{5} + \frac{1}{4} \times \frac{2}{3} + \frac{1}{2}$$

45°)
$$\frac{2}{7} \times \frac{21}{8} - \frac{3}{5} \times \frac{5}{6}$$

$$46^{\circ}$$
) $\frac{1}{3} \times \frac{9}{8} - \frac{1}{2} \times \frac{1}{4}$

47°)
$$\left(\frac{1}{2} + \frac{1}{3}\right) \div \frac{7}{12}$$

48°)
$$\left(\frac{1}{3} + \frac{1}{4}\right) \div \frac{5}{6}$$

49°)
$$\frac{\frac{1}{3}}{\frac{1}{2}}$$
, $\frac{\frac{3}{4}}{\frac{6}{5}}$, $\frac{\frac{3}{4}}{\frac{5}{6}}$ $e^{\frac{1}{\frac{4}{3}}}$

50°)
$$\frac{\frac{3}{2}}{\frac{4}{5}}; \frac{\frac{3}{2}}{\frac{5}{4}}; \frac{\frac{3}{7}}{\frac{12}{21}}e^{\frac{15}{16}}$$

52°)
$$\frac{\frac{3}{4}}{2}$$
; $\frac{4}{\frac{7}{8}}$; $\frac{\frac{7}{11}}{2}$ e $\frac{5}{\frac{3}{4}}$

53°)
$$\frac{45}{\frac{15}{75}} e^{\frac{18}{22}}$$

$$54^{\circ}) \frac{\frac{3}{4} + \frac{2}{5}}{\frac{19}{15}}$$

$$55^{\circ}) \quad \frac{\frac{3}{5} + \frac{1}{4}}{\frac{17}{12}}$$

56°)
$$\left(\frac{4}{9} + \frac{5}{12}\right) \div \frac{62}{81}$$

57°)
$$\left(\frac{5}{6} + \frac{1}{4}\right) \div \frac{13}{18}$$

$$58^{\circ}) \frac{\frac{4}{7} + \frac{1}{14}}{\frac{9}{14}}$$

$$59^{\circ}) \frac{\frac{7}{5} + \frac{3}{4}}{\frac{89}{75}}$$

$$60^{\circ}) \frac{4\frac{1}{2} + \frac{3}{2}}{7}$$

$$61^{\circ}) \; \frac{5 - \frac{3}{7}}{8}$$

$$62^{\circ}) \frac{7 - \frac{15}{4}}{\frac{39}{17}}$$

$$63^{\circ}) \frac{\frac{19}{2} - 8}{\frac{27}{16}}$$

$$64^{\circ}$$
) $\frac{11}{8} \div 5 - \frac{9}{4}$

65°)
$$\left(\frac{8}{13} - \frac{2}{3}\right) \div \frac{39}{26}$$

66°)
$$\left(\frac{18}{5} - 4\right) \div \frac{11}{20}$$

67°)
$$\left(\frac{13}{2} - 6\right) \div \frac{17}{19}$$

68°)
$$\frac{5}{4} - \frac{3}{15} \div \frac{1}{5}$$

69°)
$$\frac{1}{4} - \frac{1}{5} \div \frac{3}{25}$$

70°)
$$5 - \frac{3}{4} \div \frac{15}{16}$$

71°)
$$\frac{3}{4} \div \frac{15}{16} - 5$$

72°)
$$4 - \frac{2}{3} \div \frac{8}{27}$$

73°)
$$\frac{2}{3} \div \frac{8}{27} - 4$$

74°)
$$\left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{4} + \frac{1}{5}\right)$$

$$88^{\circ}) \frac{\frac{4}{7} \times \frac{21}{12}}{5}$$

89°)
$$\frac{\frac{3}{8} \times \frac{24}{6}}{6}$$

90°)
$$\frac{4}{7} \times \frac{\frac{21}{12}}{5}$$

91°)
$$\frac{8}{3} \times \frac{24}{\frac{9}{6}}$$

75°)
$$\left(\frac{2}{3} + \frac{3}{4}\right) \div \left(\frac{4}{5} + \frac{5}{6}\right)$$

76°)
$$\frac{1}{2} + \frac{1}{3} \div \frac{1}{4} + \frac{1}{5}$$

77°)
$$\frac{2}{3} + \frac{3}{4} \div \frac{4}{5} + \frac{5}{6}$$

$$78^{\circ}) \frac{\frac{9}{4} + \frac{4}{9}}{\frac{3}{2} + \frac{2}{3}}$$

$$79^{\circ}) \frac{\frac{4}{9} + \frac{1}{4}}{\frac{2}{3} + \frac{1}{2}}$$

80°)
$$\frac{9}{4} - \frac{4}{9} \div \frac{3}{2} + \frac{2}{3}$$

81°)
$$\frac{9}{4} - \frac{4}{9} \div \frac{2}{3} + \frac{1}{2}$$

$$82^{\circ}) \left(\frac{5}{6} \times \frac{11}{8}\right) \div \frac{11}{6}$$

83°)
$$\left(\frac{4}{7} \times \frac{3}{8}\right) \div \frac{6}{7}$$

84°)
$$\frac{5}{6} \div \left(\frac{11}{8} \times \frac{11}{6}\right)$$

85°)
$$\frac{4}{7} \times \left(\frac{3}{8} \div \frac{6}{7}\right)$$

$$86^{\circ}$$
) $\left(\frac{4}{27} \div \frac{3}{8}\right) \times \frac{16}{7}$

87°)
$$\left(\frac{3}{5} \div 6\right) \times \frac{15}{7}$$

92°)
$$\frac{\frac{5}{3}}{\frac{11}{8} \times \frac{11}{6}}$$

93°)
$$\frac{\frac{4}{7}}{\frac{3}{8} \times \frac{6}{7}}$$

94°) 2 ×
$$\frac{\frac{3}{5}}{\frac{4}{15}}$$



95°)
$$2 \times \frac{\frac{1}{4}}{\frac{9}{16}}$$

