

5. Scăderea fracturilor cu același numitor

$$\frac{1}{99} \quad \frac{3}{8} - \frac{1}{4} = \frac{3}{8} - \frac{2}{8} = \frac{1}{8}$$

$$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$

$$\frac{4}{8} - \frac{1}{4} = \frac{4}{8} - \frac{2}{8} = \frac{2}{8} = \frac{1}{4}$$

$$\frac{6}{8} - \frac{1}{4} = \frac{6}{8} - \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

$$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$\frac{2}{99} \quad \frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4} = \frac{1}{2}$$

$$\frac{4}{5} - \frac{2}{5} = \frac{4-2}{5} = \frac{2}{5}$$

$$\frac{3}{99} \quad \frac{5}{9} - \frac{3}{9} = \frac{2}{9} \quad V: \frac{2}{9} + \frac{3}{9} = \frac{5}{9}$$

$$\frac{2}{3} - \frac{2}{3} = 0 \quad V: 0 + \frac{2}{3} = \frac{2}{3}$$

$$\frac{5}{8} - \frac{2}{8} = \frac{3}{8} \quad V: \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$\frac{4}{7} - \frac{2}{7} = \frac{2}{7} \quad V: \frac{2}{7} + \frac{2}{7} = \frac{4}{7}$$

$$\frac{6}{6} - \frac{4}{6} = \frac{2}{6} \quad V: \frac{2}{6} + \frac{4}{6} = \frac{6}{6}$$

$$\frac{3}{4} - \frac{1}{4} = \frac{2}{4} \quad V: \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{4}{99} \quad \frac{2}{8} + \frac{3}{8} - \frac{1}{8} = \frac{2+3-1}{8} = \frac{4}{8} = \frac{1}{2}$$

$$\frac{4}{7} + \frac{3}{7} - \frac{5}{7} = \frac{4+3-5}{7} = \frac{2}{7}$$

$$\frac{1}{6} + \frac{4}{6} - \frac{3}{6} = \frac{1+4-3}{6} = \frac{2}{6} = \frac{1}{3}$$

$$\frac{5}{7} - \frac{4}{7} + \frac{3}{7} = \frac{5-4+3}{7} = \frac{4}{7}$$

$$\frac{4}{9} + \frac{3}{9} - \frac{2}{9} = \frac{4+3-2}{9} = \frac{5}{9}$$

$$\frac{4}{8} + \frac{4}{8} - \frac{6}{8} = \frac{2}{8} = \frac{1}{4}$$

$$5/99 \quad \frac{1}{5} + \frac{4}{5} \quad \boxed{>} \quad \frac{4}{5} - \frac{1}{5} \quad \frac{8}{9} - \frac{7}{9} \quad \boxed{<} \quad \frac{7}{9} + \frac{2}{9}$$

$$\frac{7}{9} - \frac{6}{9} \quad \boxed{<} \quad \frac{1}{9} + \frac{5}{9} \quad \frac{2}{5} + \frac{1}{5} \quad \boxed{>} \quad \frac{5}{5} - \frac{2}{2}$$

$$\frac{3}{5} - \frac{1}{5} \quad \boxed{<} \quad \frac{3}{5} + \frac{1}{5} \quad \frac{4}{7} + \frac{2}{7} \quad \boxed{=} \quad \frac{7}{7} - \frac{1}{7}$$

$$6/99, \quad a - \frac{1}{2} = \frac{1}{2}$$

$$a = \frac{1}{2} + \frac{1}{2}$$

$$a = \frac{2}{2} = 1$$

$$b - \frac{3}{5} = \frac{1}{5}$$

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

$$b = \frac{4}{5}$$

$$c - \frac{2}{6} = \frac{3}{6}$$

$$c = \frac{3}{6} + \frac{2}{6}$$

$$c = \frac{5}{6}$$

$$\frac{7}{9} - a = \frac{2}{9}$$

$$a = \frac{7}{9} - \frac{2}{9}$$

$$a = \frac{5}{9}$$

$$\frac{5}{6} - b = \frac{1}{6}$$

$$b = \frac{5}{6} - \frac{1}{6}$$

$$b = \frac{4}{6}$$

$$\frac{4}{8} - c = \frac{1}{8}$$

$$c = \frac{4}{8} - \frac{1}{8}$$

$$c = \frac{3}{8}$$

$$a + \frac{1}{2} = \frac{2}{2}$$

$$a = \frac{2}{2} - \frac{1}{2}$$

$$a = \frac{1}{2}$$

$$\frac{3}{5} + b = \frac{4}{5}$$

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

$$b = \frac{1}{5}$$

$$\frac{7}{8} - c + \frac{1}{8} = \frac{2}{8}$$

$$\frac{7}{8} - c = \frac{2}{8} - \frac{1}{8}$$

$$\frac{7}{8} - c = \frac{1}{8}$$

$$c = \frac{7}{8} - \frac{1}{8} = \frac{6}{8}$$

$$7/100: \frac{71}{100} - \frac{25}{100} = \frac{71-25}{100} = \frac{46}{100}$$

$$\frac{48}{100} - \frac{19}{100} = \frac{48-19}{100} = \frac{29}{100}$$

$$\frac{83}{100} - \frac{38}{100} - \frac{25}{100} = \frac{83-38-25}{100} = \frac{45-25}{100} = \frac{20}{100}$$

$$\frac{100}{100} - \frac{25}{100} - \frac{50}{100} = \frac{100-25-50}{100} = \frac{75-50}{100} = \frac{25}{100}$$

$$\frac{43}{100} + \frac{48}{100} - \frac{54}{100} = \frac{43+48-54}{100} = \frac{91-54}{100} = \frac{37}{100}$$

$$\frac{36}{100} - \frac{18}{100} + \frac{67}{100} = \frac{18}{100} + \frac{67}{100} = \frac{85}{100}$$

$$8/100: d) x + \frac{25}{100} = \frac{58}{100}$$

$$x = \frac{58}{100} - \frac{25}{100}$$

$$x = \frac{33}{100}$$

$$f) \frac{100}{100} - x = \frac{25}{100}$$

$$x = \frac{100}{100} - \frac{25}{100}$$

$$x = \frac{75}{100}$$

$$e) \frac{75}{100} - x = \frac{37}{100}$$

$$x = \frac{75}{100} - \frac{37}{100}$$

$$x = \frac{38}{100}$$

$$9/100: x + \frac{3}{9} = \frac{8}{9}$$

$$x = \frac{8}{9} - \frac{3}{9} = \frac{5}{9}$$

$$10/100: x - \frac{1}{5} = \frac{3}{5}$$

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

$$x = \frac{4}{5}$$

$$11/100' \quad \frac{7}{8} - x = \frac{3}{8}$$

$$x = \frac{7}{8} - \frac{3}{8}$$

$$x = \frac{4}{8}$$

$$12/100' \quad \frac{7}{7} - \left(\frac{2}{7} + \frac{3}{7} \right) = \frac{7}{7} - \frac{5}{7} = \frac{2}{7}$$

$$13/100' \quad \left(\frac{5}{6} - \frac{2}{6} \right) + \left(\frac{1}{6} + \frac{2}{6} \right) = \frac{3}{6} + \frac{3}{6} = \frac{6}{6}$$

$$14/100' \quad \left(\frac{3}{10} + \frac{5}{10} \right) - \left(\frac{9}{10} - \frac{7}{10} \right) = \frac{8}{10} - \frac{2}{10} = \frac{6}{10}$$

$$15/100' \quad \frac{1}{3} + \frac{2}{3} - \frac{1}{3} = \frac{2}{3}$$

$$\frac{3}{10} + \frac{5}{10} - \frac{6}{10} = \frac{2}{10}$$

$$\frac{7}{8} - \frac{5}{8} + \frac{3}{8} = \frac{5}{8}$$

$$\frac{3}{7} + \frac{4}{7} - \frac{5}{7} = \frac{2}{7}$$

$$\frac{2}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$$

$$\frac{1}{6} + \frac{5}{6} - \frac{6}{6} = 0$$

$$16/101' \quad \frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

$$\frac{6}{9} + \frac{1}{9} = \frac{7}{9}$$

$$\frac{1}{10} + \frac{5}{10} = \frac{6}{10}$$

$$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$\frac{3}{6} + \frac{3}{6} = \frac{6}{6}$$

$$\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$$

$$17/101' \quad \frac{a}{3} + \frac{1}{3} = \frac{2}{3} \Rightarrow \frac{a+1}{3} = \frac{2}{3} \Rightarrow a+1=2 \Rightarrow a=2-1 \Rightarrow$$

$$\Rightarrow a=1, \text{ deci avem; } \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{2}{5} + \frac{a}{5} = \frac{5}{5} \Rightarrow \frac{2+a}{5} = \frac{5}{5} \Rightarrow 2+a=5 \Rightarrow a=5-2 \Rightarrow$$

$$\Rightarrow a=3, \text{ avem; } \frac{2}{5} + \frac{3}{5} = \frac{5}{5}$$

$$\frac{a}{3} + \frac{a}{3} = \frac{2}{3} \Rightarrow \frac{a+a}{3} = \frac{2}{3} \Rightarrow \frac{2a}{3} = \frac{2}{3} \Rightarrow 2a=2 \Rightarrow$$

$$\Rightarrow a=2:2 \Rightarrow a=1, \text{ avem } \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{a}{7} + \frac{1}{7} + \frac{3}{7} = \frac{6}{7} \Rightarrow \frac{a+1+3}{7} = \frac{6}{7} \Rightarrow a+4=6 \Rightarrow$$

$$\Rightarrow a=6-4 \Rightarrow a=2, \text{ arem } \frac{2}{7} + \frac{1}{7} + \frac{3}{7} = \frac{6}{7}$$

$$\frac{1}{9} + \frac{a}{9} + \frac{3}{9} = \frac{8}{9} \Rightarrow \frac{1+a+3}{9} = \frac{8}{9} \Rightarrow \frac{a+4}{9} = \frac{8}{9} \Rightarrow$$

$$\Rightarrow a+4=8 \Rightarrow a=8-4 \Rightarrow a=4, \text{ arem } \frac{1}{9} + \frac{4}{9} + \frac{3}{9} = \frac{8}{9}$$

$$\frac{17}{100} + \frac{13}{100} - \frac{a}{100} = \frac{15}{100} \Rightarrow \frac{17+13-a}{100} = \frac{15}{100} \Rightarrow \frac{30-a}{100} = \frac{15}{100}$$

$$\Rightarrow 30-a=15 \Rightarrow a=30-15 \Rightarrow a=15, \text{ arem:}$$

$$\frac{17}{100} + \frac{13}{100} - \frac{15}{100} = \frac{15}{100}$$

$$\frac{a}{5} - \frac{1}{5} = \frac{2}{5} \Rightarrow \frac{a-1}{5} = \frac{2}{5} \Rightarrow a-1=2 \Rightarrow a=2+1 \Rightarrow$$

$$\Rightarrow a=3, \text{ arem } \frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

$$\frac{7}{8} - \frac{a}{8} = \frac{3}{8} \Rightarrow \frac{7-a}{8} = \frac{3}{8} \Rightarrow 7-a=3 \Rightarrow a=7-3 \Rightarrow$$

$$\Rightarrow a=4, \text{ arem } \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$\frac{a}{3} + \frac{a}{3} = \frac{2}{3} \Rightarrow \frac{a+a}{3} = \frac{2}{3} \Rightarrow 2a=2 \Rightarrow a=2:2 \Rightarrow$$

$$\Rightarrow a=1, \text{ arem } \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$18/101 \text{ a) } \frac{15}{100} - \frac{9}{100} = \frac{6}{100}$$

$$\frac{26}{100} - \frac{9}{100} = \frac{17}{100}$$

$$\frac{33}{100} - \frac{9}{100} = \frac{24}{100}$$

$$\frac{45}{100} - \frac{9}{100} = \frac{36}{100}$$

$$\frac{75}{100} - \frac{9}{100} = \frac{66}{100}$$

$$\frac{81}{100} - \frac{9}{100} = \frac{72}{100}$$

$$b) \frac{15}{100} + \frac{14}{100} = \frac{29}{100}$$

$$\frac{26}{100} + \frac{14}{100} = \frac{40}{100}$$

$$\frac{33}{100} + \frac{14}{100} = \frac{47}{100}$$

$$\frac{45}{100} + \frac{14}{100} = \frac{59}{100}$$

$$\frac{75}{100} + \frac{14}{100} = \frac{89}{100}$$

$$\frac{81}{100} + \frac{14}{100} = \frac{95}{100}$$

$$19/101 \quad a + \frac{1}{3} = \frac{2}{3}$$

$$a = \frac{2}{3} - \frac{1}{3}$$

$$a = \frac{1}{3}$$

$$\frac{3}{5} + a = \frac{4}{5}$$

$$a = \frac{4}{5} - \frac{3}{5}$$

$$a = \frac{1}{5}$$

$$a + \frac{3}{7} = \frac{5}{7}$$

$$a = \frac{5}{7} - \frac{3}{7}$$

$$a = \frac{2}{7}$$

$$a - \frac{1}{2} = \frac{1}{2}$$

$$a = \frac{1}{2} + \frac{1}{2}$$

$$a = \frac{2}{2}$$

$$\frac{6}{9} - a = \frac{2}{9}$$

$$a = \frac{6}{9} - \frac{2}{9}$$

$$a = \frac{4}{9}$$

$$a - \frac{1}{4} = \frac{2}{4}$$

$$a = \frac{2}{4} + \frac{1}{4}$$

$$a = \frac{3}{4}$$

$$a + \frac{1}{7} + \frac{2}{7} = \frac{6}{7}$$

$$a + \frac{3}{7} = \frac{6}{7}$$

$$a = \frac{6}{7} - \frac{3}{7}$$

$$a = \frac{3}{7}$$

$$\frac{1}{10} + \frac{7}{10} - a = \frac{4}{10}$$

$$\frac{8}{10} - a = \frac{4}{10}$$

$$a = \frac{8}{10} - \frac{4}{10}$$

$$a = \frac{4}{10}$$

$$a - \left(\frac{1}{4} + \frac{1}{4}\right) = \frac{1}{4}$$

$$a - \frac{2}{4} = \frac{1}{4}$$

$$a = \frac{1}{4} + \frac{2}{4}$$

$$a = \frac{3}{4}$$

$$20/101 \quad \frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

mai mică suprafața plantată cu
trandafiri decât cea plantată cu
lalele.

21/102: $1 - \frac{3}{8} = \frac{8}{8} - \frac{3}{8} = \frac{5}{8}$ suprafața cultivată cu roși

22/102: $1 - \frac{3}{4} = \frac{4}{4} - \frac{3}{4} = \frac{1}{4}$ drum parcurs cu autobuzul

23/102: $1 - \frac{5}{7} = \frac{7}{7} - \frac{5}{7} = \frac{2}{7}$ sunt fete

24/102: $1 - \left(\frac{4}{9} + \frac{2}{9}\right) = \frac{9}{9} - \frac{6}{9} = \frac{3}{9}$ a parcurs în a treia etapă

25/102: a) Cât a parcurs în a doua zi?

$$\frac{2}{10} - \frac{1}{10} = \frac{1}{10}$$

b) Cât a parcurs în a treia zi?

$$\frac{2}{10} + \frac{1}{10} = \frac{3}{10}$$

c) Cât a parcurs în a patra zi?

$$1 - \left(\frac{2}{10} + \frac{1}{10} + \frac{3}{10}\right) = \frac{10}{10} - \frac{6}{10} = \frac{4}{10}$$

26/102: a) Cât a mâncat reverita în a doua lună de iarnă?

$$\frac{2}{7} + \frac{1}{7} = \frac{3}{7}$$

b) Ce cantitate din porcișă i-a mai rămas pentru a treia lună de iarnă?

$$1 - \left(\frac{2}{7} + \frac{3}{7}\right) = \frac{7}{7} - \frac{5}{7} = \frac{2}{7}$$

27/102: a) Câte caiete de dictando s-au rânduit?

$$\frac{62}{100} - \frac{28}{100} = \frac{34}{100}$$

b) Câte vocabulare s-au rânduit?

$$1 - \left(\frac{62}{100} + \frac{34}{100}\right) = \frac{100}{100} - \frac{96}{100} = \frac{4}{100}$$

28/102 a) Câte femei (reprezentată prin fractie) au fost la meci?

$$\frac{70}{100} - \frac{45}{100} = \frac{25}{100}$$

b) Câți copii au fost la meci?

$$1 - \left(\frac{70}{100} + \frac{25}{100} \right) = \frac{100}{100} - \frac{95}{100} = \frac{5}{100}$$