

KURSSIN TIEDOT

OPPIAINE: Matematiikka

KOODI: AMA1

NIMI: Luvut ja laskutoimitukset 1

AIKA: maanantai ja keskiviikko, klo 15:15 – 16:50

LUOKKA: 26

OPETTAJA: Janne Lemberg
sähköpostiosoite: janne.lemberg@tyk.fi

OPISKELUMATERIAALI:
Kurssimoniste.

SISÄLTÖ: Harjoitellaan päässälaskutaitoa. Yhteen-, vähennys-, kerto- ja jakolaskuja. Opetellaan matematiikan perussanastoa ja vahvistetaan matematiikan taitoja.

ARVIOINTI: Kurssilla on loppukoe, joka arvioidaan numerolla.
Kurssista saat suoritusmerkinnän (S).

Jos et pääse tunnille, löydät tunneilla käydyt asiat [peda.netistä](https://peda.net/helsinki/tyk/tya/perusopetus/matematiikka/ama1):
<https://peda.net/helsinki/tyk/tya/perusopetus/matematiikka/ama1>

Jos sinulla on kipeä olo, älä tule kouluun!

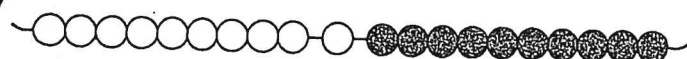
Voit hyvin tehdä tehtäviä myös kotona.

Tarvittaessa saat opettajaan yhteyden sähköpostilla.

KURSSIN OHJELMA

OPPITUNTI	PÄIVÄMÄÄRÄ	AIHE (sivunumerot kirjasta)
1.	ma 11.1	Yhteenlasku
2.	ke 13.1	Vähennyslasku
3.	ma 18.1	Ongelmanratkaisua yhteen- ja vähennyslaskun avulla
4.	ke 20.1	Ongelmanratkaisua yhteen- ja vähennyslaskun avulla
5.	ma 25.1	Yhteenlasku allekkain
6.	ke 27.1	Vähennyslasku allekkain
7.	ma 1.2	Kertolasku
8.	ke 3.2	Jakolasku
9.	ma 8.2	Laskujärjestys
10.	ke 10.2	Koeharjoittelua
11.	ma 15.2	Loppukoe

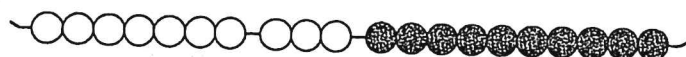
Nimi _____



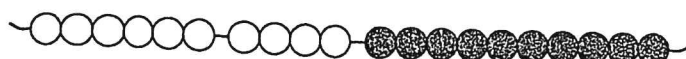
$$\begin{array}{rcl} 9 + 5 & = & 14 \\ 9 + 6 & = & 15 \\ 9 + 4 & = & 13 \\ 9 + 8 & = & 17 \\ 9 + 7 & = & 16 \\ 9 + 9 & = & 18 \end{array}$$



$$\begin{array}{rcl} 8 + 5 & = & 13 \\ 8 + 4 & = & 12 \\ 8 + 6 & = & 14 \\ 8 + 8 & = & 16 \\ 8 + 7 & = & 15 \\ 8 + 9 & = & 17 \end{array}$$

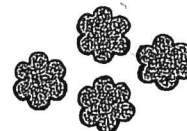


$$\begin{array}{rcl} 7 + 4 & = & 11 \\ 7 + 6 & = & 13 \\ 7 + 7 & = & 14 \\ 7 + 5 & = & 12 \\ 7 + 8 & = & 15 \\ 7 + 9 & = & 16 \end{array}$$

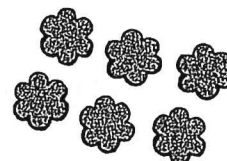


$$\begin{array}{rcl} 6 + 5 & = & 11 \\ 6 + 7 & = & 13 \\ 6 + 6 & = & 12 \\ 6 + 4 & = & 10 \\ 6 + 9 & = & 15 \\ 6 + 8 & = & 14 \end{array}$$

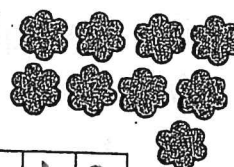
Kuinka monta keksiä on
yhteensä?



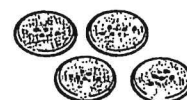
$$9 + 4 = 13$$



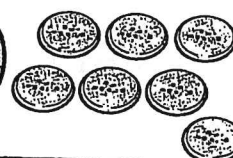
$$9 + 6 = 15$$



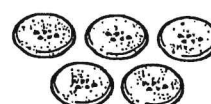
$$9 + 9 = 18$$



$$8 + 4 = 12$$



$$8 + 7 = 15$$



$$8 + 5 = 13$$

LAS-KE. SIIR-RÄ KIR-JAIN TU-LOK-SEN RUU-TUUN.

$6 + 6 = \boxed{12} \text{ U}$

$9 + 5 = \boxed{14} \text{ S}$

$9 + 7 = \boxed{16} \text{ T}$

$7 + 8 = \boxed{15} \text{ U}$

$9 + 4 = \boxed{13} \text{ U}$

$7 + 4 = \boxed{11} \text{ R}$

R U U S U T

11 12 13 14 15 16

$8 + 9 = \boxed{17} \text{ A}$

$5 + 8 = \boxed{13} \text{ K}$

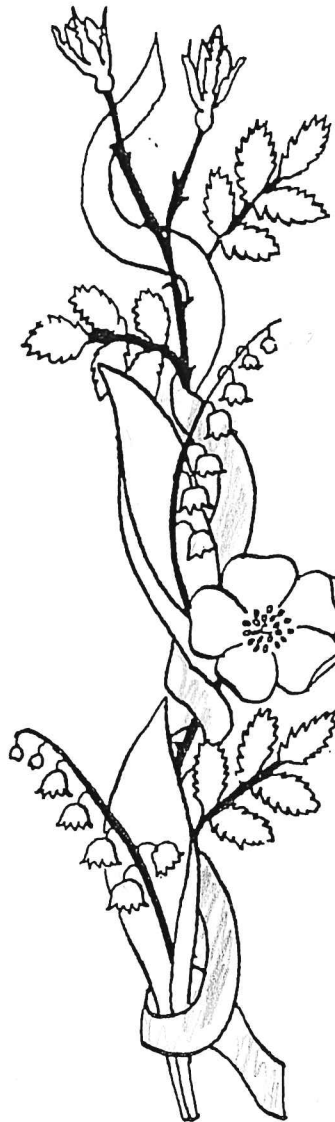
$9 + 6 = \boxed{15} \text{ K}$

$4 + 8 = \boxed{12} \text{ U}$

$8 + 3 = \boxed{11} \text{ K}$

K U K K A

11 12 13 15 17



$9 + 3 = \boxed{12} \text{ I}$

$8 + 8 = \boxed{16} \text{ L}$

$6 + 5 = \boxed{11} \text{ K}$

$7 + 7 = \boxed{14} \text{ E}$

$9 + 9 = \boxed{18} \text{ T}$

$8 + 9 = \boxed{17} \text{ O}$

K I E L O T

11 12 14 16 17 18

$9 + 7 = \boxed{16} \text{ H}$

$7 + 6 = \boxed{13} \text{ A}$

$6 + 8 = \boxed{14} \text{ U}$

$9 + 8 = \boxed{17} \text{ A}$

$2 + 9 = \boxed{11} \text{ N}$

N A U H A

11 13 14 16 17

TÄY-DEN-NÄ.

1.

$9 + \boxed{3} = 12$

$6 + \boxed{5} = 11$

$7 + \boxed{7} = 14$

$4 + \boxed{8} = 12$

2.

$7 + \boxed{4} = 11$

$8 + \boxed{7} = 15$

$5 + \boxed{7} = 12$

$9 + \boxed{9} = 18$

3.

$\boxed{9} + 2 = 11$

$\boxed{8} + 5 = 13$

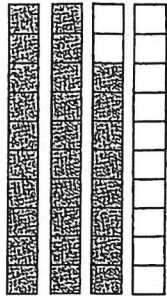
$\boxed{9} + 7 = 16$

$\boxed{7} + 8 = 15$

Nimi _____

Laske. Kuva on apuna.

1.



$$28 + 3 = \underline{31}$$

$$28 + 5 = \underline{33}$$

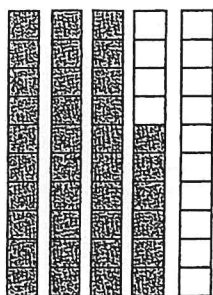
$$28 + 7 = \underline{35}$$

$$28 + 4 = \underline{32}$$

$$28 + 9 = \underline{37}$$

$$28 + 8 = \underline{36}$$

2.



$$36 + 4 = \underline{40}$$

$$36 + 6 = \underline{42}$$

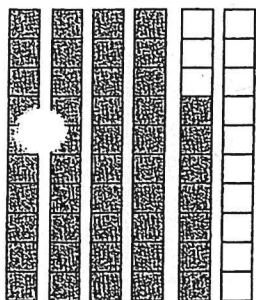
$$36 + 5 = \underline{41}$$

$$36 + 7 = \underline{43}$$

$$36 + 9 = \underline{45}$$

$$36 + 8 = \underline{44}$$

3.



$$47 + 3 = \underline{50}$$

$$47 + 5 = \underline{52}$$

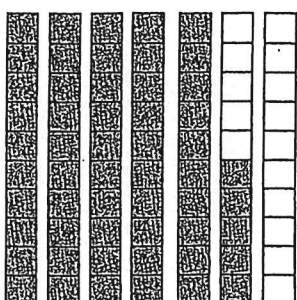
$$47 + 7 = \underline{54}$$

$$47 + 4 = \underline{51}$$

$$47 + 8 = \underline{55}$$

$$47 + 6 = \underline{53}$$

4.



$$55 + 6 = \underline{61}$$

$$55 + 4 = \underline{59}$$

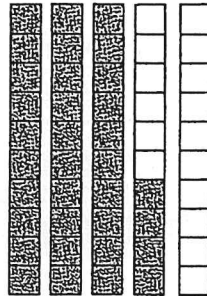
$$55 + 8 = \underline{63}$$

$$55 + 9 = \underline{64}$$

$$55 + 7 = \underline{62}$$

$$55 + 5 = \underline{60}$$

5.



$$34 + 6 = \underline{40}$$

$$34 + 5 = \underline{39}$$

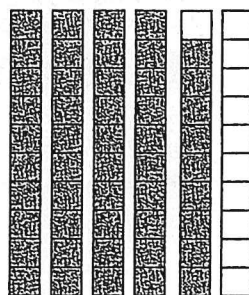
$$34 + 7 = \underline{41}$$

$$34 + 9 = \underline{43}$$

$$34 + 4 = \underline{38}$$

$$34 + 8 = \underline{42}$$

6.



$$49 + 2 = \underline{51}$$

$$49 + 4 = \underline{53}$$

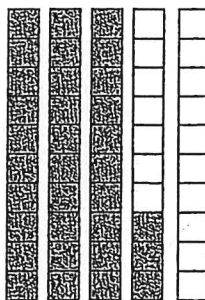
$$49 + 6 = \underline{55}$$

$$49 + 5 = \underline{54}$$

$$49 + 8 = \underline{57}$$

$$49 + 7 = \underline{56}$$

7.



$$33 + 6 = \underline{39}$$

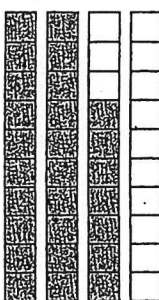
$$33 + 4 = \underline{37}$$

$$33 + 7 = \underline{40}$$

$$33 + 9 = \underline{42}$$

$$33 + 8 = \underline{41}$$

8.



$$27 + 4 = \underline{31}$$

$$27 + 6 = \underline{33}$$

$$27 + 5 = \underline{32}$$

$$27 + 8 = \underline{35}$$

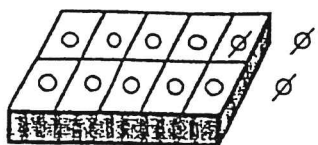
$$27 + 9 = \underline{36}$$

$$27 + 7 = \underline{34}$$

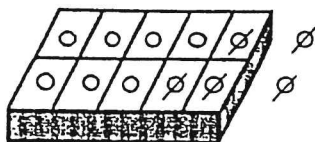
Kymmenylitys vähennyslaskussa

NIMI _____

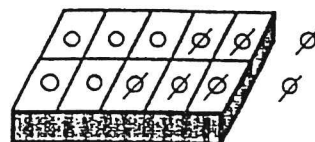
VÄ-HEN-NÄ.



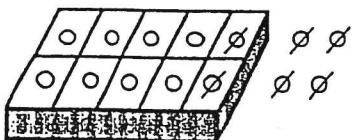
$$12 - 3 = \boxed{9}$$



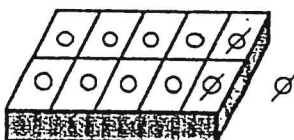
$$12 - 5 = \boxed{7}$$



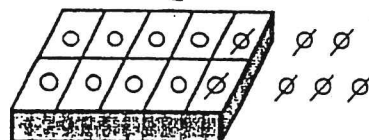
$$12 - 7 = \boxed{5}$$



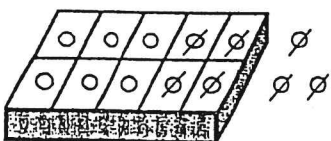
$$14 - 6 = \boxed{8}$$



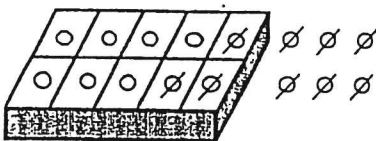
$$11 - 3 = \boxed{8}$$



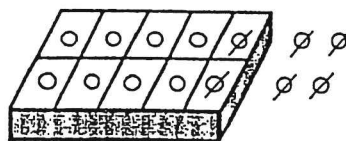
$$15 - 7 = \boxed{8}$$



$$13 - 7 = \boxed{6}$$

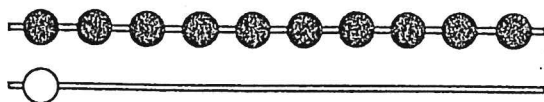


$$16 - 9 = \boxed{7}$$



$$14 - 6 = \boxed{8}$$

VÄ-HEN-NÄ.



$$11 - 2 = \boxed{9}$$

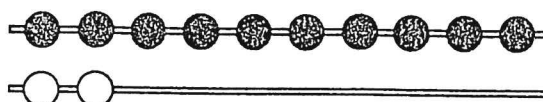
$$11 - 4 = \boxed{7}$$

$$11 - 6 = \boxed{5}$$

$$11 - 3 = \boxed{8}$$

$$11 - 9 = \boxed{2}$$

$$11 - 5 = \boxed{6}$$



$$12 - 4 = \boxed{8}$$

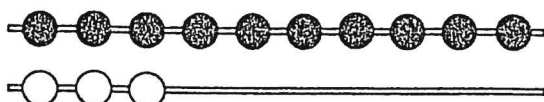
$$12 - 6 = \boxed{6}$$

$$12 - 7 = \boxed{5}$$

$$12 - 8 = \boxed{4}$$

$$12 - 5 = \boxed{7}$$

$$12 - 9 = \boxed{3}$$



$$13 - 5 = \boxed{8}$$

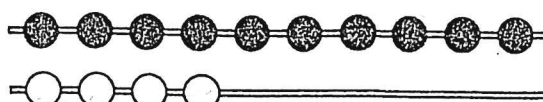
$$13 - 7 = \boxed{6}$$

$$13 - 8 = \boxed{5}$$

$$13 - 9 = \boxed{4}$$

$$13 - 4 = \boxed{9}$$

$$13 - 6 = \boxed{7}$$



$$14 - 6 = \boxed{8}$$

$$14 - 8 = \boxed{6}$$

$$14 - 9 = \boxed{5}$$

$$14 - 5 = \boxed{9}$$

$$14 - 7 = \boxed{7}$$

$$14 - 6 = \boxed{8}$$

KOTITEHTÄVÄ

Nimi _____



$$11 - 3 = \boxed{8}$$

$$11 - 5 = \boxed{6}$$

$$11 - 4 = \boxed{7}$$

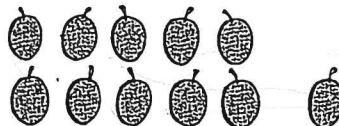
$$11 - 6 = \boxed{5}$$

$$11 - 9 = \boxed{2}$$

$$11 - 7 = \boxed{4}$$

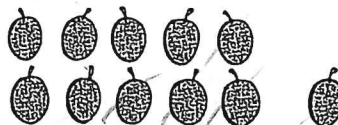
Kuinka monta luumua jää?

Luumuista syödään 4.



$$\boxed{11} - \boxed{4} = \boxed{7}$$

Luumuista syödään 6.



$$\boxed{11} - \boxed{6} = \boxed{5}$$

Luumuista syödään 5.



$$\boxed{12} - \boxed{5} = \boxed{7}$$

Luumuista syödään 7.



$$\boxed{12} - \boxed{7} = \boxed{5}$$

Luumuista syödään 7.

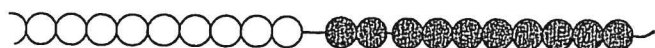


$$\boxed{13} - \boxed{7} = \boxed{6}$$

Luumuista syödään 9.



$$\boxed{14} - \boxed{9} = \boxed{5}$$



$$12 - 4 = \boxed{8}$$

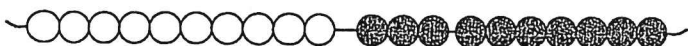
$$12 - 6 = \boxed{6}$$

$$12 - 8 = \boxed{4}$$

$$12 - 5 = \boxed{7}$$

$$12 - 7 = \boxed{5}$$

$$12 - 9 = \boxed{3}$$



$$13 - 6 = \boxed{7}$$

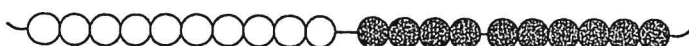
$$13 - 4 = \boxed{9}$$

$$13 - 8 = \boxed{5}$$

$$13 - 9 = \boxed{4}$$

$$13 - 5 = \boxed{8}$$

$$13 - 7 = \boxed{6}$$



$$14 - 7 = \boxed{7}$$

$$14 - 5 = \boxed{9}$$

$$14 - 6 = \boxed{8}$$

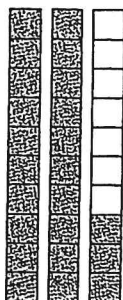
$$14 - 8 = \boxed{6}$$

$$14 - 9 = \boxed{5}$$

Nimi -----

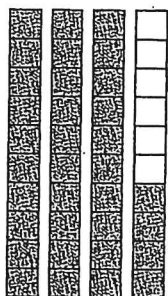
Laske. Kuva on apuna.

1.



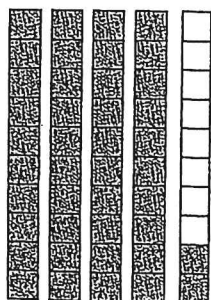
$$\begin{array}{r} 23 - 4 = \underline{19} \\ 23 - 6 = \underline{17} \\ 23 - 5 = \underline{18} \\ 23 - 8 = \underline{15} \\ 23 - 7 = \underline{16} \\ 23 - 9 = \underline{14} \end{array}$$

2.



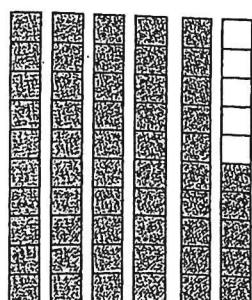
$$\begin{array}{r} 34 - 4 = \underline{30} \\ 34 - 6 = \underline{28} \\ 34 - 5 = \underline{29} \\ 34 - 8 = \underline{26} \\ 34 - 7 = \underline{27} \\ 34 - 9 = \underline{25} \end{array}$$

3.



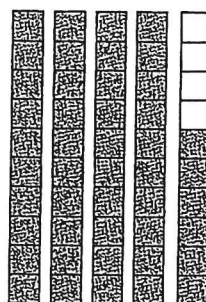
$$\begin{array}{r} 42 - 3 = \underline{39} \\ 42 - 5 = \underline{37} \\ 42 - 7 = \underline{35} \\ 42 - 4 = \underline{38} \\ 42 - 6 = \underline{36} \\ 42 - 9 = \underline{33} \end{array}$$

4.



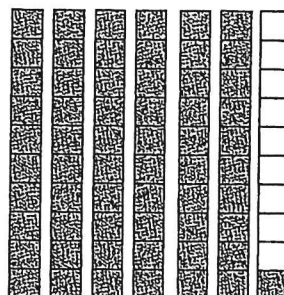
$$\begin{array}{r} 55 - 5 = \underline{50} \\ 55 - 8 = \underline{47} \\ 55 - 6 = \underline{49} \\ 55 - 7 = \underline{48} \\ 55 - 9 = \underline{46} \\ 55 - 4 = \underline{51} \end{array}$$

5.



$$\begin{array}{r} 46 - 6 = \underline{40} \\ 46 - 5 = \underline{41} \\ 46 - 8 = \underline{38} \\ 46 - 7 = \underline{39} \\ 46 - 9 = \underline{37} \end{array}$$

6.



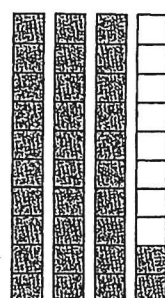
$$\begin{array}{r} 61 - 2 = \underline{59} \\ 61 - 4 = \underline{57} \\ 61 - 6 = \underline{55} \\ 61 - 5 = \underline{56} \\ 61 - 8 = \underline{53} \\ 61 - 9 = \underline{52} \end{array}$$

7.



$$\begin{array}{r} 43 - 5 = \underline{38} \\ 43 - 4 = \underline{39} \\ 43 - 7 = \underline{36} \\ 43 - 6 = \underline{37} \\ 43 - 8 = \underline{35} \\ 43 - 9 = \underline{34} \end{array}$$

8.



$$\begin{array}{r} 32 - 5 = \underline{27} \\ 32 - 8 = \underline{24} \\ 32 - 4 = \underline{28} \\ 32 - 6 = \underline{26} \\ 32 - 9 = \underline{23} \\ 32 - 7 = \underline{25} \end{array}$$

LASKU-LIISA 3

Laske.

Nimi _____

$12 - 3 = 9$

$15 - 6 = 9$

$11 - 5 = 6$

$12 - 6 = 6$

$18 - 9 = 9$

$15 - 7 = 8$

$14 - 9 = 5$

$13 - 8 = 5$

$13^8 - 5 - 7 = 1$

$17^{11} - 6 - 2 = 9$

$11^7 - 4 - 5 = 2$

$14^{12} - 2 - 6 = 6$

$13^7 - 6 - 1 = 6$

$20^{15} - 5 - 6 = 9$

$15^8 - 7 - 3 = 5$

$19^{12} - 7 - 6 = 6$

$9^{13} + 4 - 1 = 12$

$7 + 7 - 2 = 12$

$12 - 5 + 3 = 10$

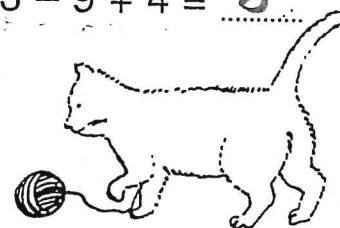
$11 - 6 + 4 = 9$

$8 + 8 - 3 = 13$

$9 + 9 - 3 = 15$

$14^7 - 7 + 2 = 9$

$13 - 9 + 4 = 8$



LASKU-LIISA 4

Laske.

Nimi _____

$36 + 3 = 39$

$12 + 7 = 19$

$42 + 8 = 50$

$50 + 6 = 56$

$71 + 7 = 78$

$62 + 4 = 66$

$93 + 5 = 98$

$24 + 6 = 30$

$74 - 1 = 73$

$28 - 5 = 23$

$66 - 6 = 60$

$60 - 6 = 54$

$19 - 7 = 12$

$99 - 3 = 96$

$55 - 4 = 51$

$87 - 5 = 82$

$13 + 20 = 33$

$90 - 60 = 30$

$33 + 41 = 74$

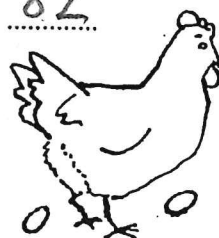
$65 - 20 = 45$

$55 + 30 = 85$

$63 - 40 = 23$

$24 + 24 = 48$

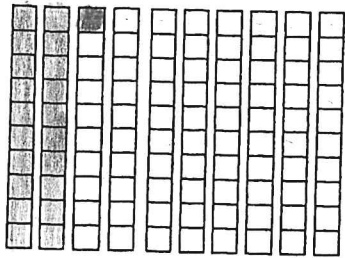
$70 - 50 = 20$



Nimi _____

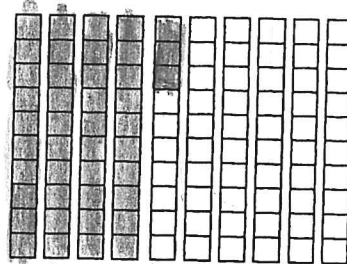
KOTITEHTÄVÄ

1. Väritä 21 ruutua.



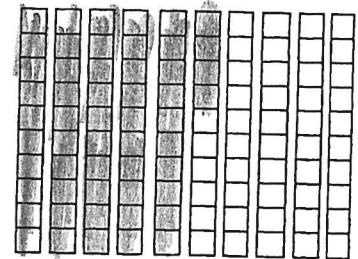
Värittämättä jää 79
ruutua.

2. Väritä 43 ruutua.



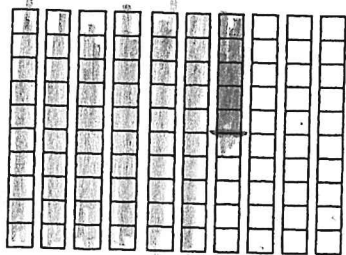
Värittämättä jää 57
ruutua.

3. Väritä 54 ruutua.



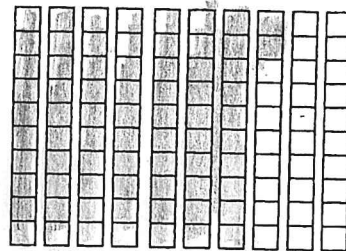
Värittämättä jää 46
ruutua.

4. Väritä 65 ruutua.



Värittämättä jää 35
ruutua.

5. Väritä 72 ruutua.



Värittämättä jää 28
ruutua.

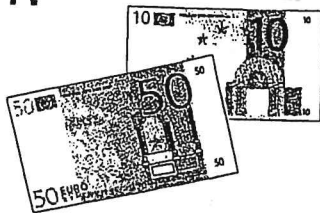
6. Väritä 88 ruutua.



Värittämättä jää 12
ruutua.

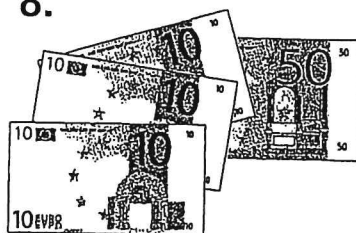
Laske, kuinka paljon rahaa on ja kuinka paljon puuttuu 100 eurosta.

7.



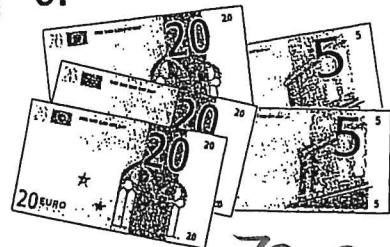
rahaa on 60 €
puuttuu 40 €

8.



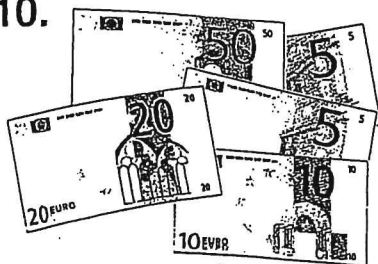
rahaa on 80 €
puuttuu 20 €

9.



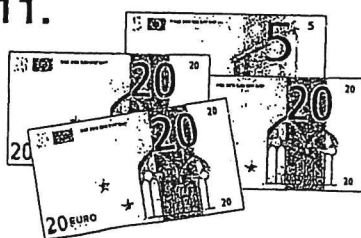
rahaa on 70 €
puuttuu 30 €

10.



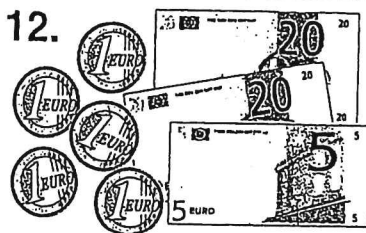
rahaa on 90 €
puuttuu 10 €

11.



rahaa on 65 €
puuttuu 35 €

12.



rahaa on 50 €
puuttuu 50 €