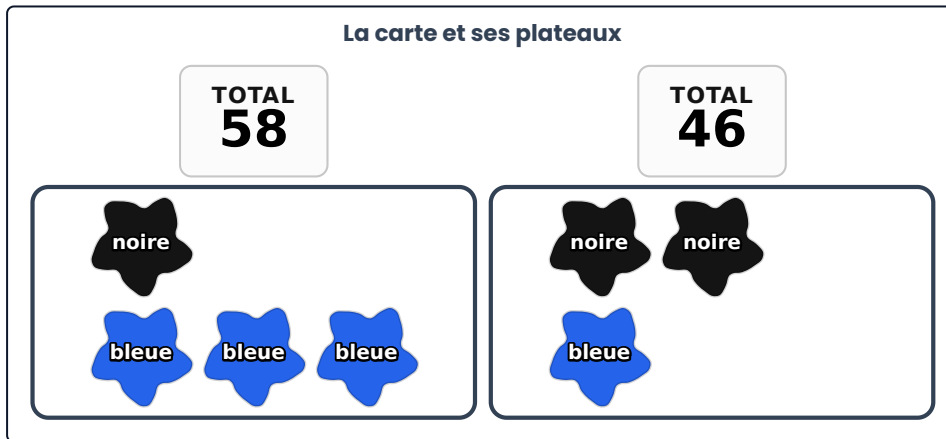


SPLAT! système · cycle 4

Aucun plateau ne tient dans l'autre ?
Recopie-en un !

COMMENT ÇA MARCHE ?

La carte et ses plateaux



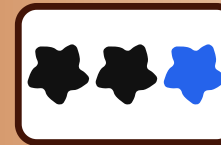
Sur cette carte, deux plateaux, un total pour chacun. Une couleur cache partout le même nombre de jetons.

Pour trouver ce que cache chaque couleur, on **compare les plateaux**. Les pages 2 et 3 le font pas à pas.

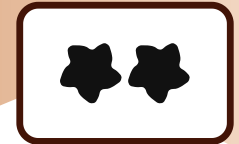


Sur les fiches, la place sous chaque carte est pour toi : **écris le système, dessine le schéma**, puis trouve ce que cache chaque couleur — comme l'exemple des pages 2 et 3.

TOTAL
?



TOTAL
?



Livret corrigé
avec les taches

DANS CE LIVRET

25d

Je recopie, puis je retire

Je recopie un plateau, j'y retrouve l'autre.

26d

Deux fois ou trois fois ?

Je choisis combien de fois recopier.

27d

Deux gestes à la suite

Les petits plateaux d'abord, puis le grand.

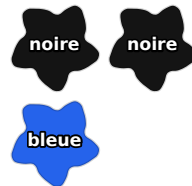
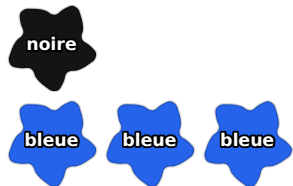
28d

À toi de choisir

Tous les gestes, plateaux mélangés.

Le système pas à pas

La carte et ses plateaux

TOTAL
58TOTAL
46

Le système :

$$\begin{cases} N + 3 \times B = 58 \\ 2 \times N + B = 46 \end{cases}$$

1er plateau : une tache noire et trois taches bleues, total 58.

2e plateau : deux taches noires et une tache bleue, total 46.

Une couleur cache partout le même nombre de jetons.

Mon enquête : trouver ce que cache chaque couleur.

Les deux plateaux

58

$$1 \text{ noire} + 3 \text{ bleues} = 58$$

46

$$2 \text{ noires} + 1 \text{ bleue} = 46$$

Je recopie 2 fois le plateau 58

116

$$2 \times 58$$



Je retrouve le plateau 46 dedans

116**46**

Je retire

70

$$116 - 46$$



Je partage

14

$$70 \div 5$$



Je remplace

58

Je retire

16

$$58 - 14 - 14 - 14$$



Je vérifie

$$16 + 3 \times 14 = 58 \quad \checkmark$$

$$2 \times 16 + 14 = 46 \quad \checkmark$$

noire = 16 bleue = 14

À TOI !

La même sorte de carte — corrigée

La carte et ses plateaux

TOTAL
53

TOTAL
46



Le système :

$$\begin{cases} O + 3 \times N = 53 \\ 2 \times O + N = 46 \end{cases}$$

1er plateau : une tache orange et trois taches noires, total 53.

2e plateau : deux taches orange et une tache noire, total 46.

À toi ! La même sorte de carte, d'autres nombres : le schéma rempli.

Les deux plateaux

53



$$1 \text{ orange} + 3 \text{ noires} = 53$$

46



$$2 \text{ orange} + 1 \text{ noire} = 46$$

Je recopie 2 fois le plateau 53

106

$$2 \times 53$$



Je retrouve le plateau 46 dedans

106

46



Je retire

60

$$106 - 46$$



Je partage

12

$$60 \div 5$$



Je remplace

53



Je retire

17

$$53 - 12 - 12 - 12$$



Je vérifie

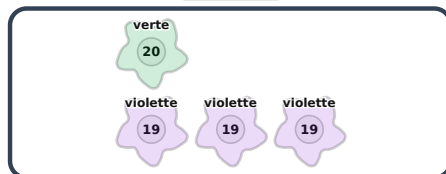
$$17 + 3 \times 12 = 53 \quad \checkmark$$

$$2 \times 17 + 12 = 46 \quad \checkmark$$

orange = 17 noire = 12



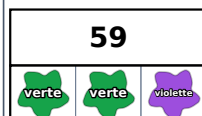
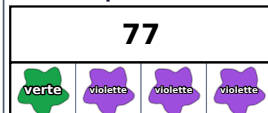
TOTAL
77



TOTAL
59



Les deux plateaux



Je recopie 2 fois le plateau 77



Je retrouve le plateau 59 dedans



Je retire



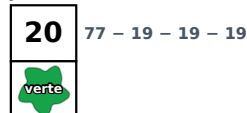
Je partage



Je remplace



Je retire



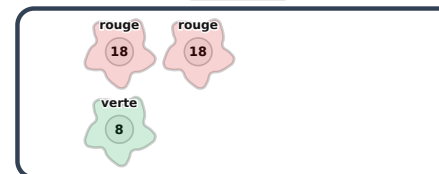
Je vérifie

$$20 + 3 \times 19 = 77 \checkmark$$

$$2 \times 20 + 19 = 59 \checkmark$$

verte = 20 violette = 19

TOTAL
44



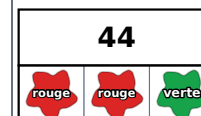
TOTAL
50



Les deux plateaux

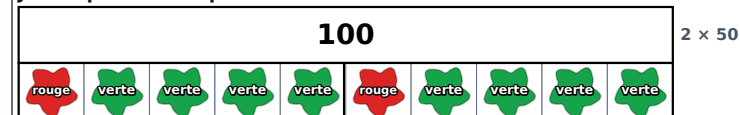


$1 \text{ rouge} + 4 \text{ vertes} = 50$

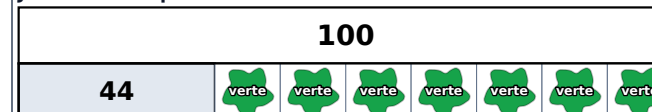


$2 \text{ rouges} + 1 \text{ verte} = 44$

Je recopie 2 fois le plateau 50



Je retrouve le plateau 44 dedans



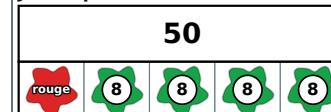
Je retire



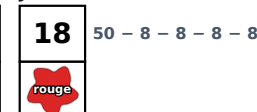
Je partage



Je remplace



Je retire



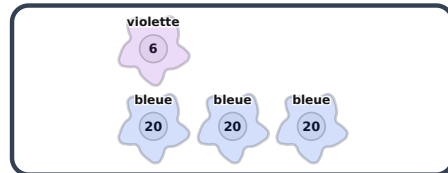
Je vérifie

$$18 + 4 \times 8 = 50 \checkmark$$

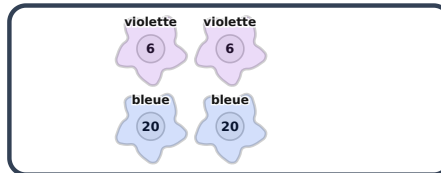
$$2 \times 18 + 8 = 44 \checkmark$$

rouge = 18 verte = 8

TOTAL
66



TOTAL
52



Les deux plateaux



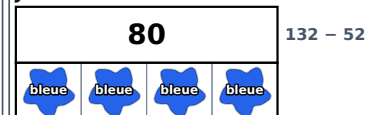
Je recopie 2 fois le plateau 66



Je retrouve le plateau 52 dedans



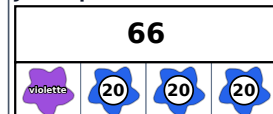
Je retire



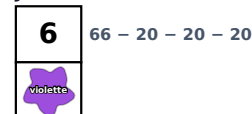
Je partage



Je remplace



Je retire



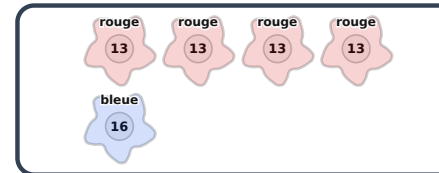
Je vérifie

$$6 + 3 \times 20 = 66 \checkmark$$

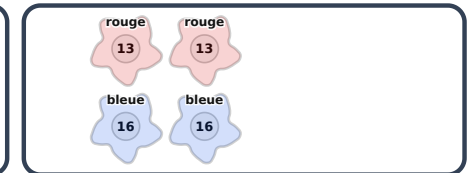
$$2 \times 6 + 2 \times 20 = 52 \checkmark$$

violette = 6 bleue = 20

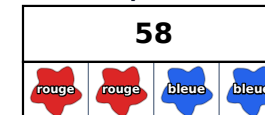
TOTAL
68



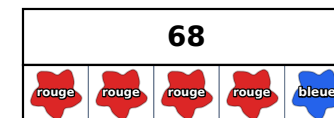
TOTAL
58



Les deux plateaux

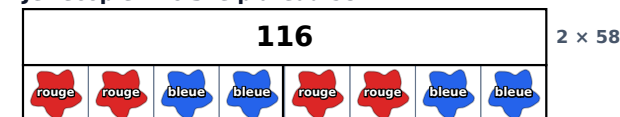


$$2 \text{ rouges} + 2 \text{ bleues} = 58$$

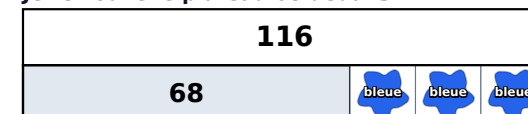


$$4 \text{ rouges} + 1 \text{ bleue} = 68$$

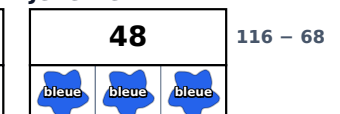
Je recopie 2 fois le plateau 58



Je retrouve le plateau 68 dedans



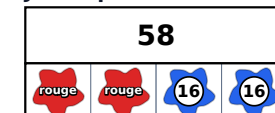
Je retire



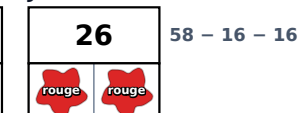
Je partage



Je remplace



Je retire



Je partage



Je vérifie

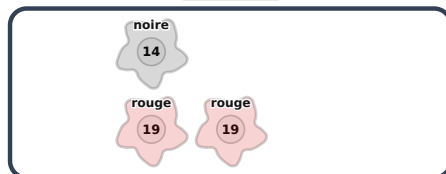
$$2 \times 13 + 2 \times 16 = 58 \checkmark$$

$$4 \times 13 + 16 = 68 \checkmark$$

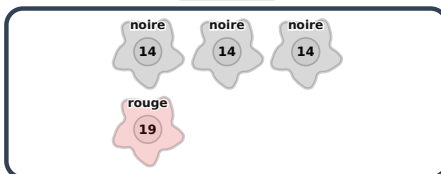
rouge = 13 bleue = 16



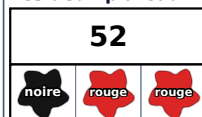
TOTAL
52



TOTAL
61



Les deux plateaux

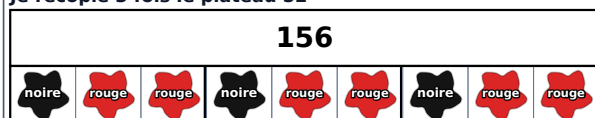


$$1 \text{ noire} + 2 \text{ rouges} = 52$$



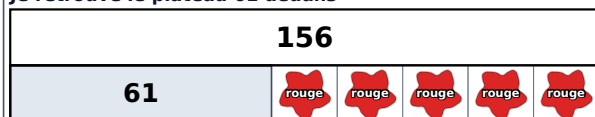
$$3 \text{ noires} + 1 \text{ rouge} = 61$$

Je recopie 3 fois le plateau 52

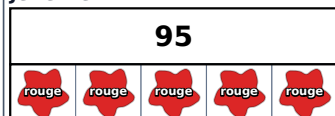


$$3 \times 52$$

Je retrouve le plateau 61 dedans



Je retire



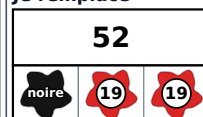
$$156 - 61$$

Je partage



$$95 \div 5$$

Je remplace



Je retire



$$52 - 19 - 19$$

Je vérifie

$$14 + 2 \times 19 = 52 \checkmark$$

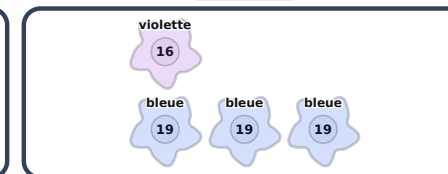
$$3 \times 14 + 19 = 61 \checkmark$$

noire = 14 rouge = 19

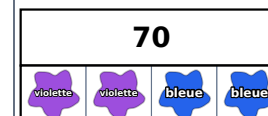
TOTAL
70



TOTAL
73



Les deux plateaux

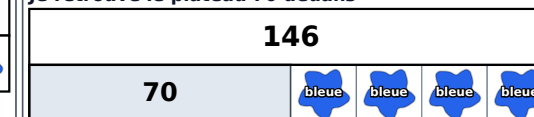


Je recopie 2 fois le plateau 73



$$2 \times 73$$

Je retrouve le plateau 70 dedans



Je retire



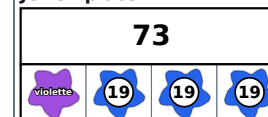
$$146 - 70$$

Je partage



$$76 \div 4$$

Je remplace



Je retire



$$73 - 19 - 19 - 19$$

Je vérifie

$$16 + 3 \times 19 = 73 \checkmark$$

$$2 \times 16 + 2 \times 19 = 70 \checkmark$$

violette = 16 bleue = 19

**TOTAL
54**



**TOTAL
64**



Les deux plateaux



1 verte + 3 bleues = 54



3 vertes + 2 bleues = 64

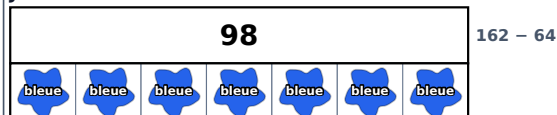
Je recopie 3 fois le plateau 54



Je retrouve le plateau 64 dedans



Je retire



162 - 64

Je partage

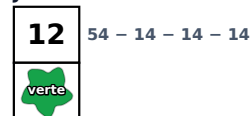


98 ÷ 7

Je remplace



Je retire



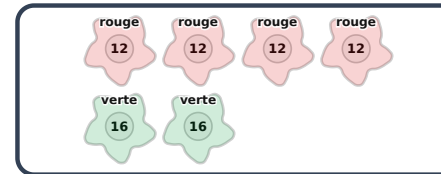
54 - 14 - 14 - 14

Je vérifie

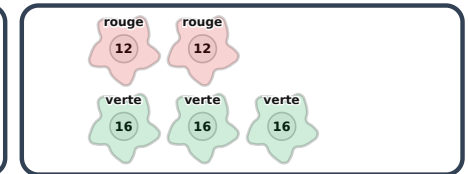
12 + 3 × 14 = 54 ✓
3 × 12 + 2 × 14 = 64 ✓

verte = 12 bleue = 14

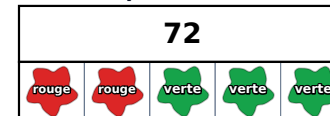
**TOTAL
80**



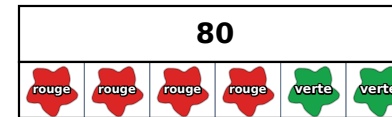
**TOTAL
72**



Les deux plateaux

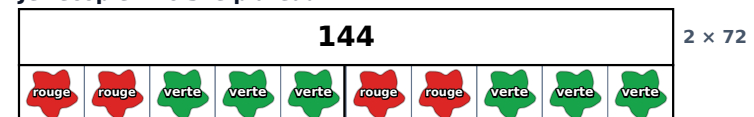


2 rouges + 3 vertes = 72



4 rouges + 2 vertes = 80

Je recopie 2 fois le plateau 72



Je retrouve le plateau 80 dedans



Je retire



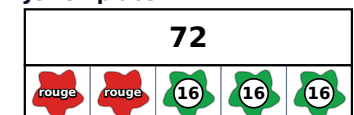
144 - 80

Je partage



64 ÷ 4

Je remplace



Je retire



72 - 16 - 16 - 16

Je partage



24 ÷ 2

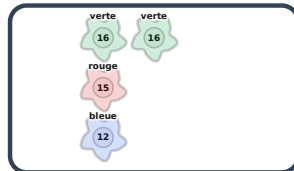
Je vérifie

2 × 12 + 3 × 16 = 72 ✓
4 × 12 + 2 × 16 = 80 ✓

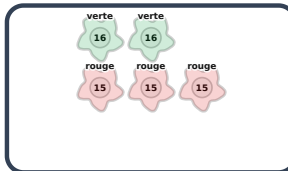
rouge = 12 verte = 16



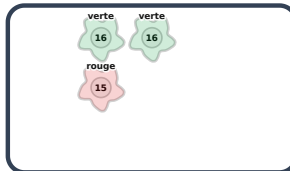
TOTAL
59



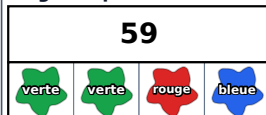
TOTAL
77



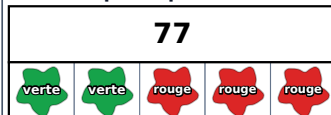
TOTAL
47



Le grand plateau



Les deux petits plateaux

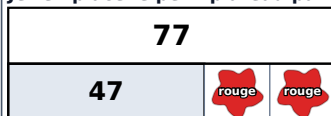


$$2 \text{ vertes} + 3 \text{ rouges} = 77$$

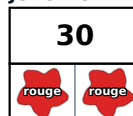


$$2 \text{ vertes} + 1 \text{ rouge} = 47$$

Je remplace le petit plateau par son total

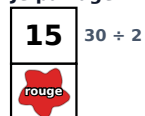


Je retire



$$77 - 47$$

Je partage



$$30 \div 2$$

Je remplace



Je retire



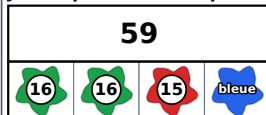
$$47 - 15$$

Je partage



$$32 \div 2$$

Je remplace dans le plateau 59



Je retire



$$59 - 16 - 16 - 15$$

Je vérifie

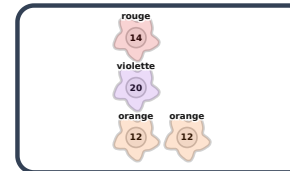
$$2 \times 16 + 15 + 12 = 59 \checkmark$$

$$2 \times 16 + 3 \times 15 = 77 \checkmark$$

$$2 \times 16 + 15 = 47 \checkmark$$

verte = 16 rouge = 15 bleue = 12

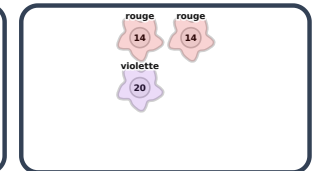
TOTAL
58



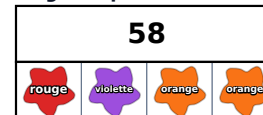
TOTAL
54



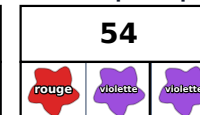
TOTAL
48



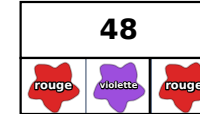
Le grand plateau



Les deux petits plateaux

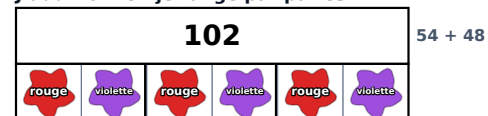


$$1 \text{ rouge} + 2 \text{ violettes} = 54$$



$$2 \text{ rouges} + 1 \text{ violette} = 48$$

J'additionne : je range par paires



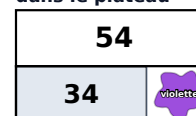
$$54 + 48$$

Je partage



$$102 \div 3$$

Je retrouve 1 paire dans le plateau

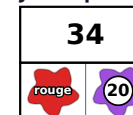


Je retire



$$54 - 34$$

Je remplace



Je retire



$$34 - 20$$

Je remplace dans le plateau 58



Je retire



$$58 - 14 - 20$$

Je partage



$$24 \div 2$$

Je vérifie

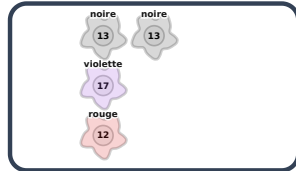
$$14 + 20 + 2 \times 12 = 58 \checkmark$$

$$14 + 2 \times 20 = 54 \checkmark$$

$$2 \times 14 + 20 = 48 \checkmark$$

rouge = 14 violette = 20 orange = 12

**TOTAL
55**



**TOTAL
64**



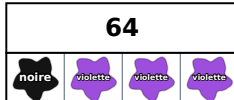
**TOTAL
60**



Le grand plateau



Les deux petits plateaux



1 noire + 3 violettes = 64



2 noires + 2 violettes = 60

Je recopie 2 fois le plateau 64

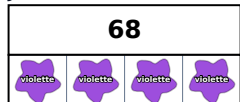


2 × 64

Je retrouve le plateau 60 dedans



Je retire



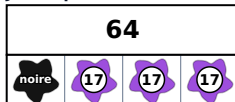
128 - 60

Je partage

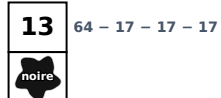


68 ÷ 4

Je remplace



Je retire



64 - 17 - 17 - 17

Je remplace dans le plateau 55



Je retire



55 - 13 - 13 - 17

Je vérifie

$2 \times 13 + 17 + 12 = 55 \checkmark$
 $13 + 3 \times 17 = 64 \checkmark$
 $2 \times 13 + 2 \times 17 = 60 \checkmark$

noire = 13 violette = 17 rouge = 12

**TOTAL
61**



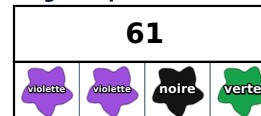
**TOTAL
67**



**TOTAL
39**



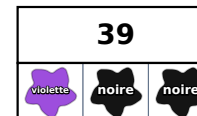
Le grand plateau



Les deux petits plateaux

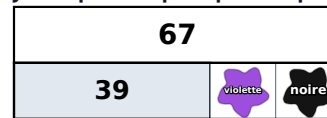


2 violettes + 3 noires = 67



1 violette + 2 noires = 39

Je remplace le petit plateau par son total



Je retire



67 - 39

Je retrouve ce reste dans le petit plateau

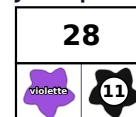


Je retire



39 - 28

Je remplace



Je retire



28 - 11

Je remplace dans le plateau 61



Je retire



61 - 17 - 17 - 11

Je vérifie

$2 \times 17 + 11 + 16 = 61 \checkmark$
 $2 \times 17 + 3 \times 11 = 67 \checkmark$
 $17 + 2 \times 11 = 39 \checkmark$

violette = 17 noire = 11 verte = 16



TOTAL
53



TOTAL
82



TOTAL
59



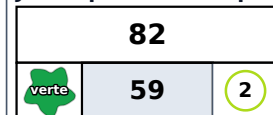
Les trois plateaux



Je remplace un petit plateau par son total



Je remplace l'autre petit plateau par son total



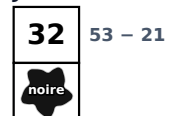
Je retire



Je remplace



Je retire



Je vérifie

$21 + 32 + 27 + 2 = 82 \checkmark$
 $21 + 32 = 53 \checkmark$
 $32 + 27 = 59 \checkmark$

verte = 21 noire = 32 bleue = 27

TOTAL
55



TOTAL
78



TOTAL
41



Les trois petits plateaux



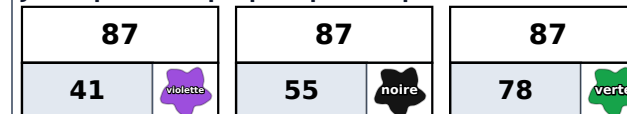
J'additionne : je range en 2 grands plateaux



Je partage



Je remplace chaque petit plateau par son total



Je retire

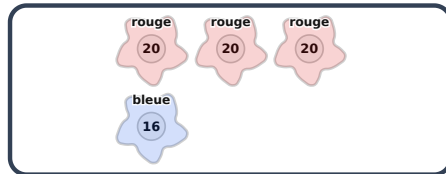


Je vérifie

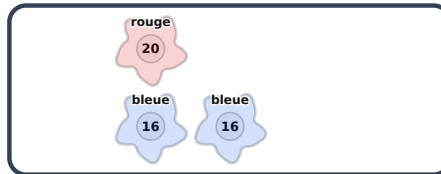
$32 + 9 = 41 \checkmark$
 $9 + 46 = 55 \checkmark$
 $32 + 46 = 78 \checkmark$

noire = 32 verte = 9 violette = 46

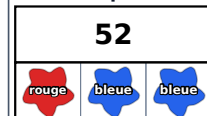
TOTAL
76



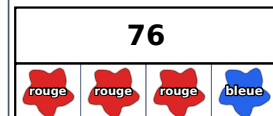
TOTAL
52



Les deux plateaux



$$1 \text{ rouge} + 2 \text{ bleues} = 52$$



$$3 \text{ rouges} + 1 \text{ bleue} = 76$$

Je recopie 3 fois le plateau 52

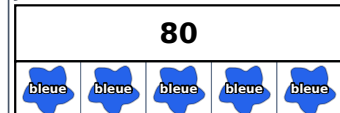


$$3 \times 52$$

Je retrouve le plateau 76 dedans



Je retire



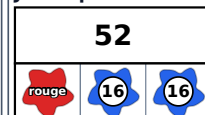
$$156 - 76$$

Je partage



$$80 \div 5$$

Je remplace



Je retire



$$52 - 16 - 16$$

Je vérifie

$$20 + 2 \times 16 = 52 \checkmark$$

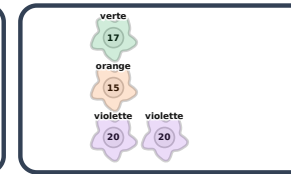
$$3 \times 20 + 16 = 76 \checkmark$$

$$\text{rouge} = 20 \quad \text{bleue} = 16$$

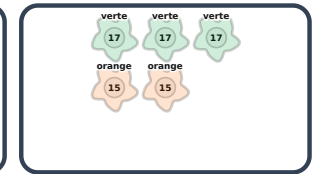
TOTAL
79



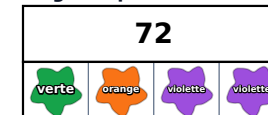
TOTAL
72



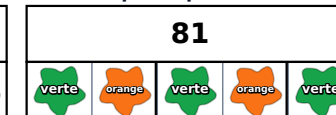
TOTAL
81



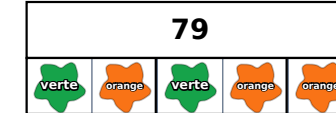
Le grand plateau



Les deux petits plateaux



$$3 \text{ vertes} + 2 \text{ orange} = 81$$



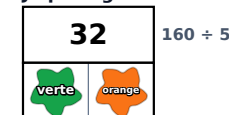
$$2 \text{ vertes} + 3 \text{ orange} = 79$$

J'additionne : je range par paires

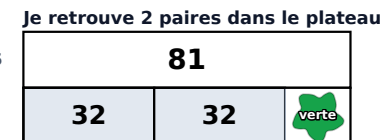


$$81 + 79$$

Je partage



$$160 \div 5$$



Je retrouve 2 paires dans le plateau



$$81 - 32 - 32$$

Je remplace



Je retire



Je remplace dans le plateau 72

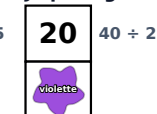


Je retire



$$72 - 17 - 15$$

Je partage



$$40 \div 2$$

Je vérifie

$$17 + 15 + 2 \times 20 = 72 \checkmark$$

$$3 \times 17 + 2 \times 15 = 81 \checkmark$$

$$2 \times 17 + 3 \times 15 = 79 \checkmark$$

$$\text{verte} = 17 \quad \text{orange} = 15 \quad \text{violette} = 20$$

LE DÉFI ! — CORRIGÉ

Recopier 4 fois... puis deux gestes, dans le désordre !

TOTAL 71

TOTAL 51

Les deux plateaux

51

1 noire + 2 rouges = 51

71

4 noires + 1 rouge = 71

Je recopie 4 fois le plateau 51

204

4 x 51

Je retrouve le plateau 71 dedans

204

71

Je retire

133

$204 - 71$

Je partage

19

$133 \div 7$

Je remplace

51

Je retire

13

$51 - 19 - 19$

Je vérifie

$13 + 2 \times 19 = 51 \checkmark$
 $4 \times 13 + 19 = 71 \checkmark$

noire = 13 rouge = 19

TOTAL 77

TOTAL 57

TOTAL 46

Le grand plateau

57

Les deux petits plateaux

77

2 violettes + 3 bleues = 77

46

1 violette + 2 bleues = 46

Je remplace le petit plateau par son total

77

46

Je retire

31

$77 - 46$

Je retrouve ce reste dans le petit plateau

46

31

Je retire

15

$46 - 31$

Je remplace

31

Je retire

16

$31 - 15$

Je remplace dans le plateau 57

57

Je retire

26

$57 - 16 - 15$

Je partage

13

$26 \div 2$

Je vérifie

$16 + 15 + 2 \times 13 = 57 \checkmark$
 $2 \times 16 + 3 \times 15 = 77 \checkmark$
 $16 + 2 \times 15 = 46 \checkmark$

violette = 16 bleue = 15 verte = 13