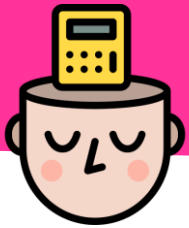


CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?

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CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?

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●	●	●	●	●					

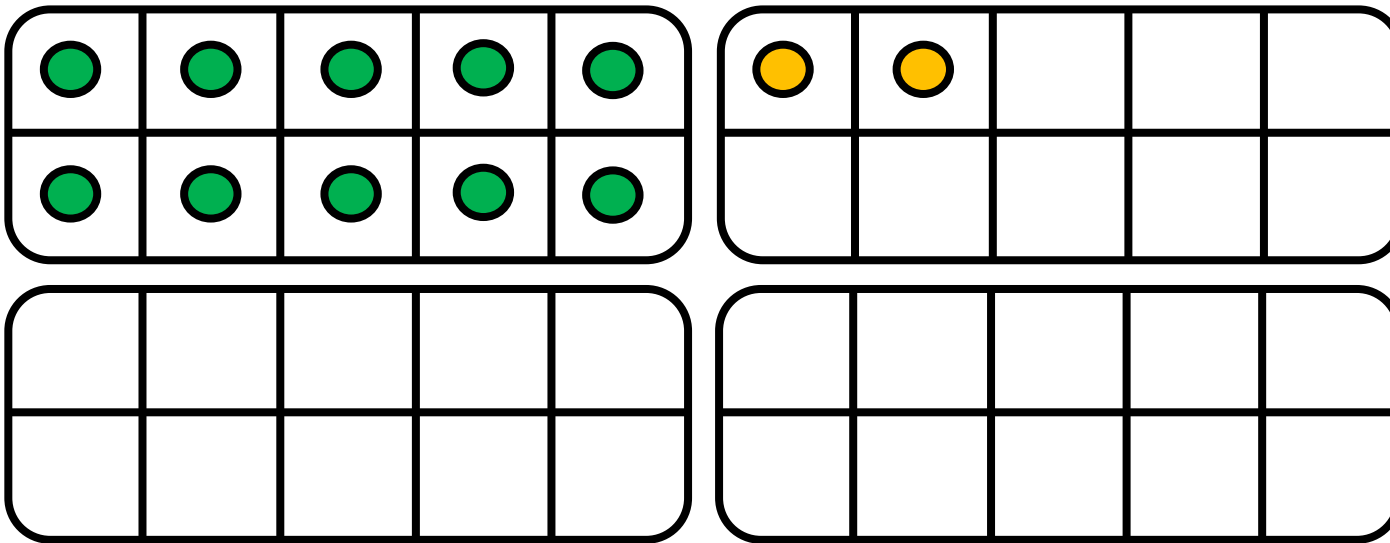
$$\begin{array}{r} 12 \\ \swarrow \searrow \\ 10 + 2 \end{array}$$

$$= \underline{\hspace{2cm}}$$

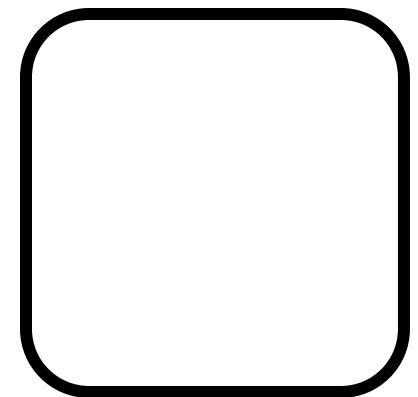


CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?



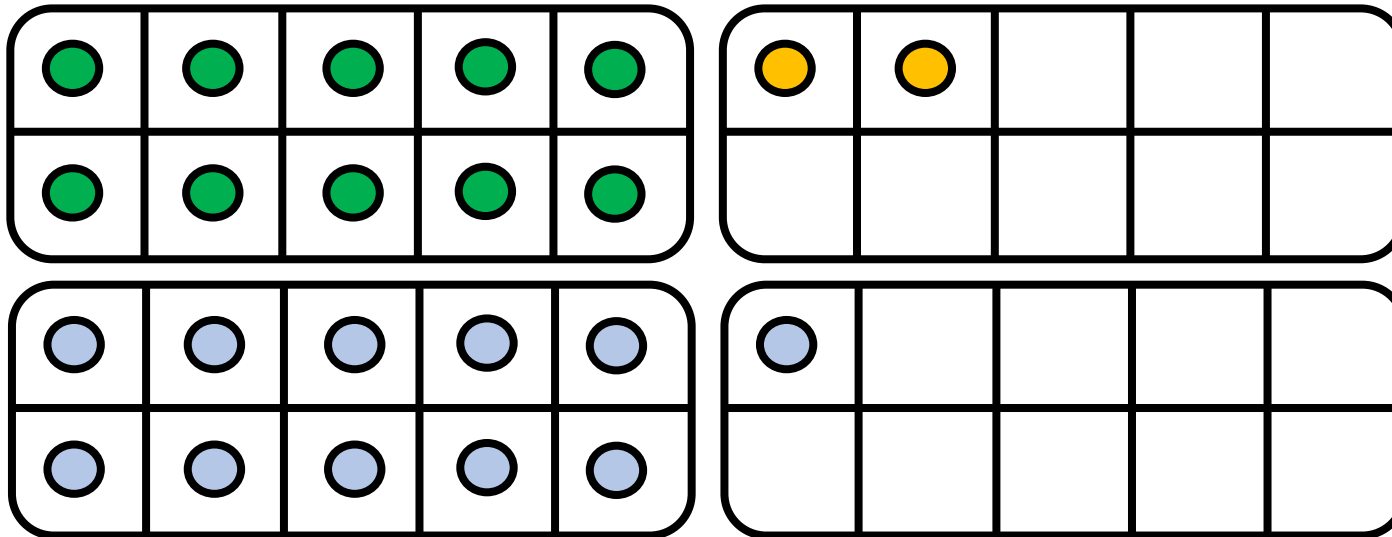
$$\begin{array}{c} 12 \\ 10 + 2 \end{array} = \underline{\hspace{2cm}}$$





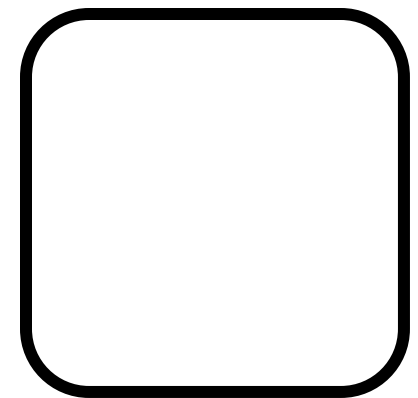
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?



$$12 + 11 = \underline{\hspace{2cm}}$$

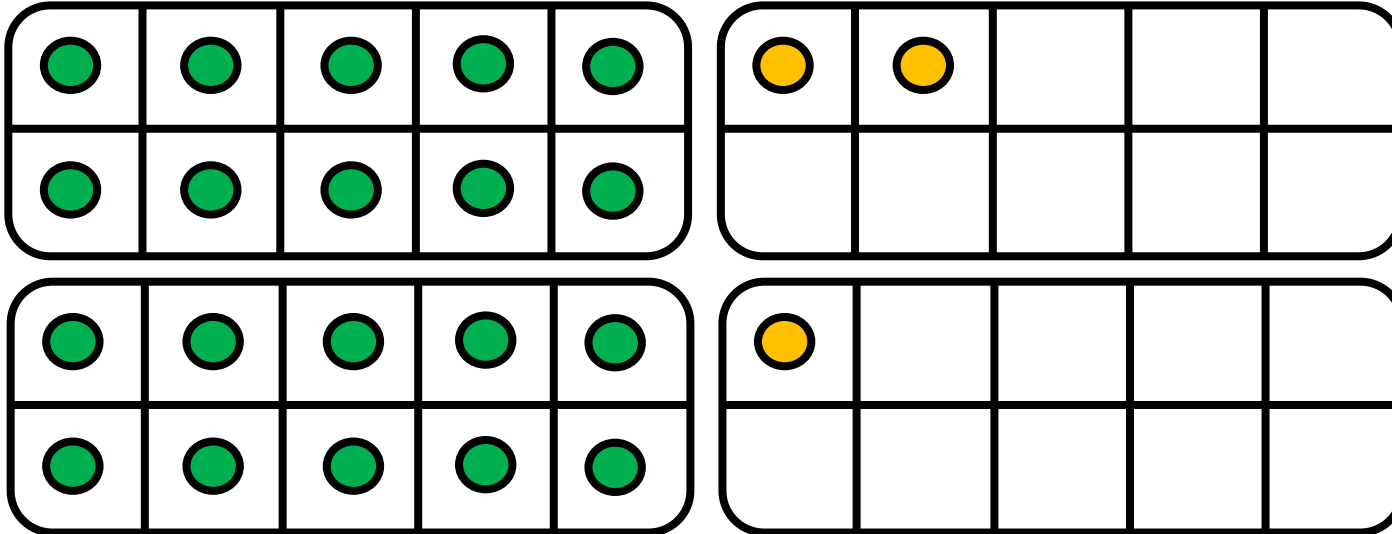
$$10 + 2$$





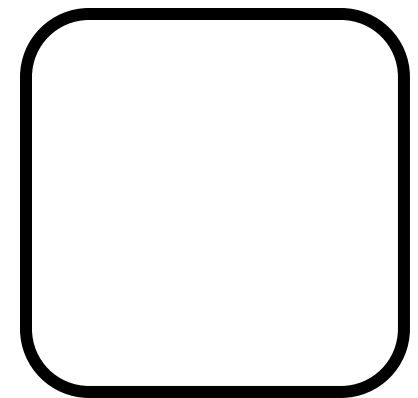
CM 22: Utiliser la technique des presque doubles <20

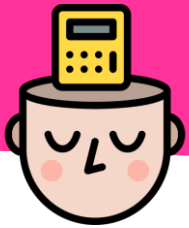
Combien font $12 + 11$?



$$12 + 11 = \underline{\hspace{2cm}}$$

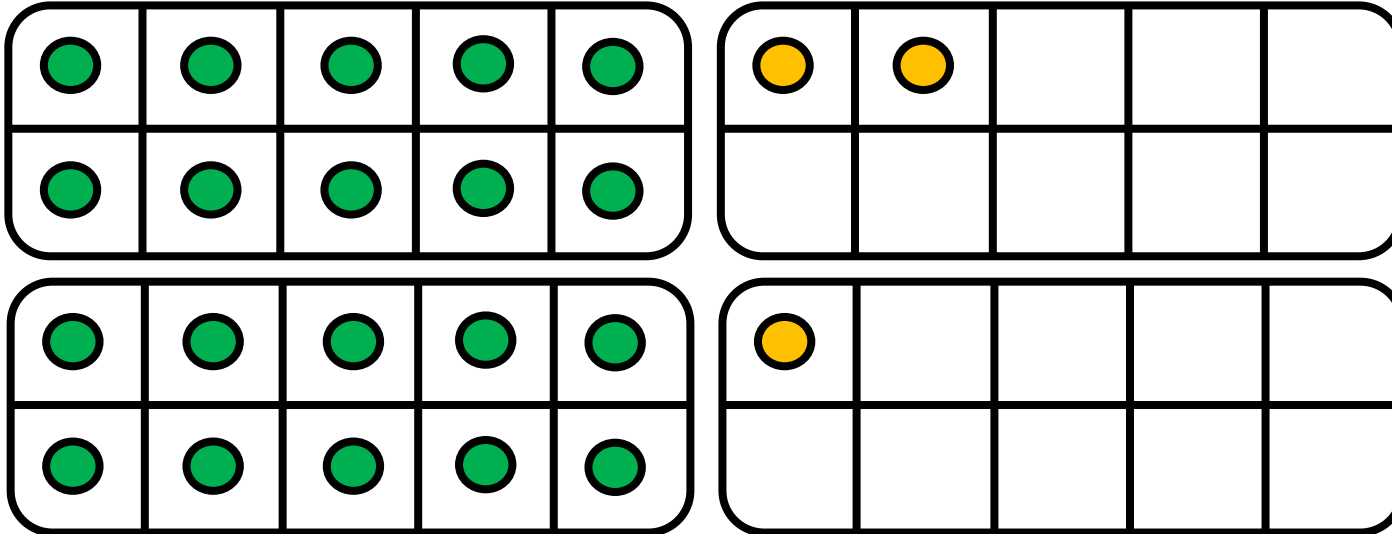
$$10 + 2 + 10 + 1$$





CM 22: Utiliser la technique des presque doubles <20

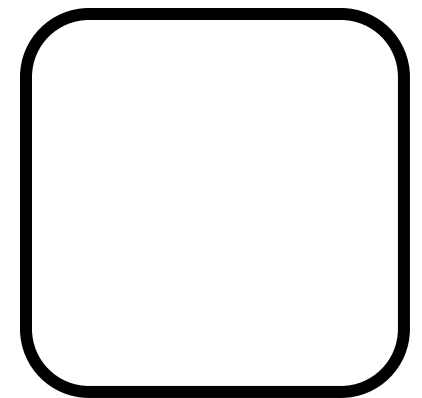
Combien font $12 + 11$?



$$12 + 11 = \underline{\hspace{2cm}}$$

$$10 + 2 + 10 + 1$$

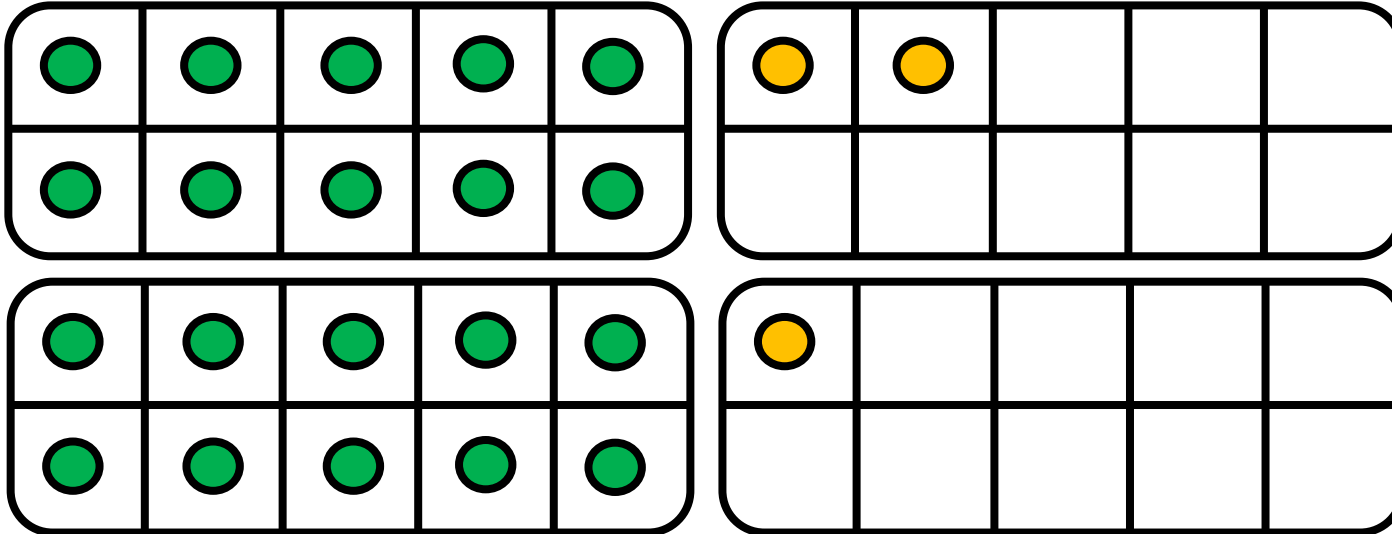
20





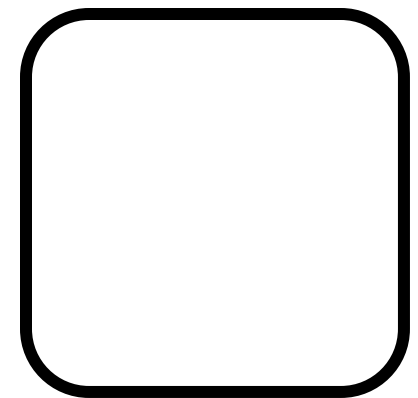
CM 22: Utiliser la technique des presque doubles <20

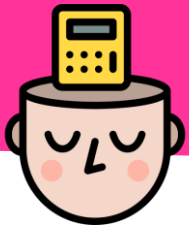
Combien font $12 + 11$?



$$12 + 11 = \underline{\hspace{2cm}}$$

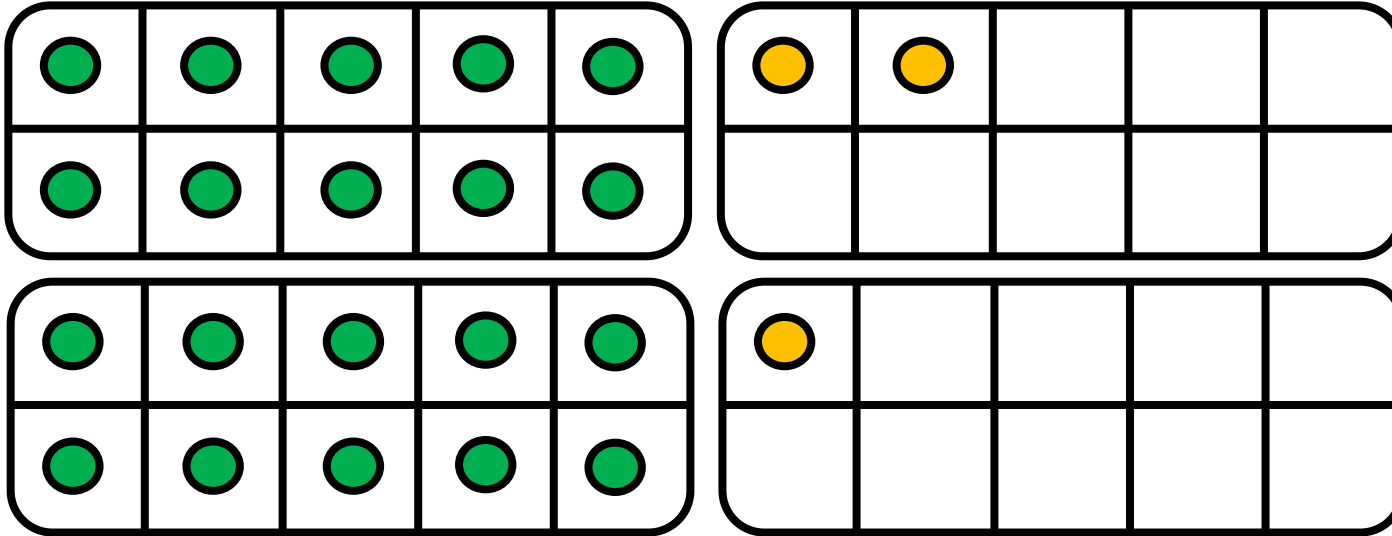
$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 1 \\ & & \diagdown & & \diagup & & \diagdown \\ & & & 20 & + & 3 & \end{array}$$





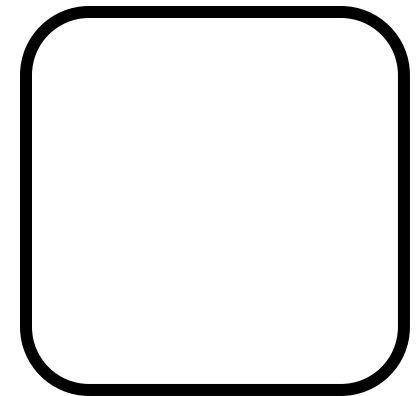
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?



$$12 + 11 = \underline{23}$$

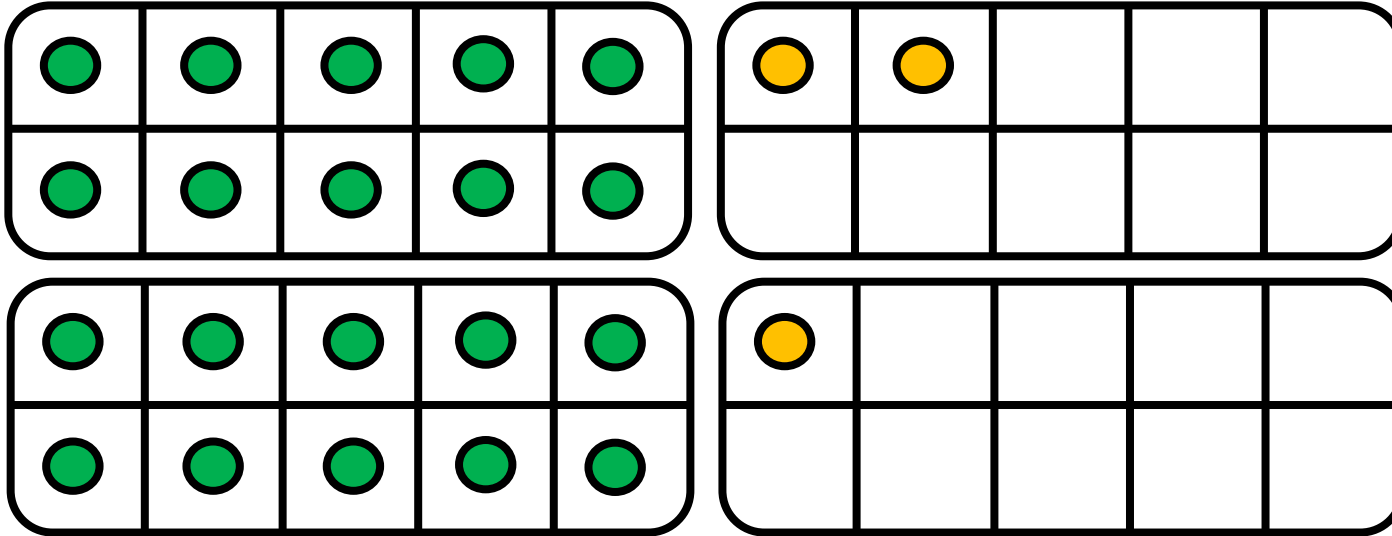
$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 1 \\ & \swarrow & & \swarrow & \swarrow & & \swarrow \\ & & 20 & + & 3 & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 11$?



$$12 + 11 = \underline{23}$$

$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 1 \\ & \swarrow & & \searrow & \swarrow & & \searrow \\ & & 20 & + & 3 & & \end{array}$$

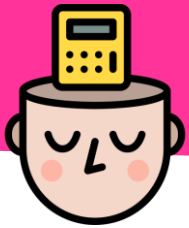
23



CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?

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CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?

●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●						

$$\begin{array}{r} 14 \\ \swarrow \searrow \\ 10 + 4 \end{array}$$

$$= \underline{\hspace{2cm}}$$



CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?

●	●	●	●	●	●	●	●	●	●
●	●	●	●	●					

14

=

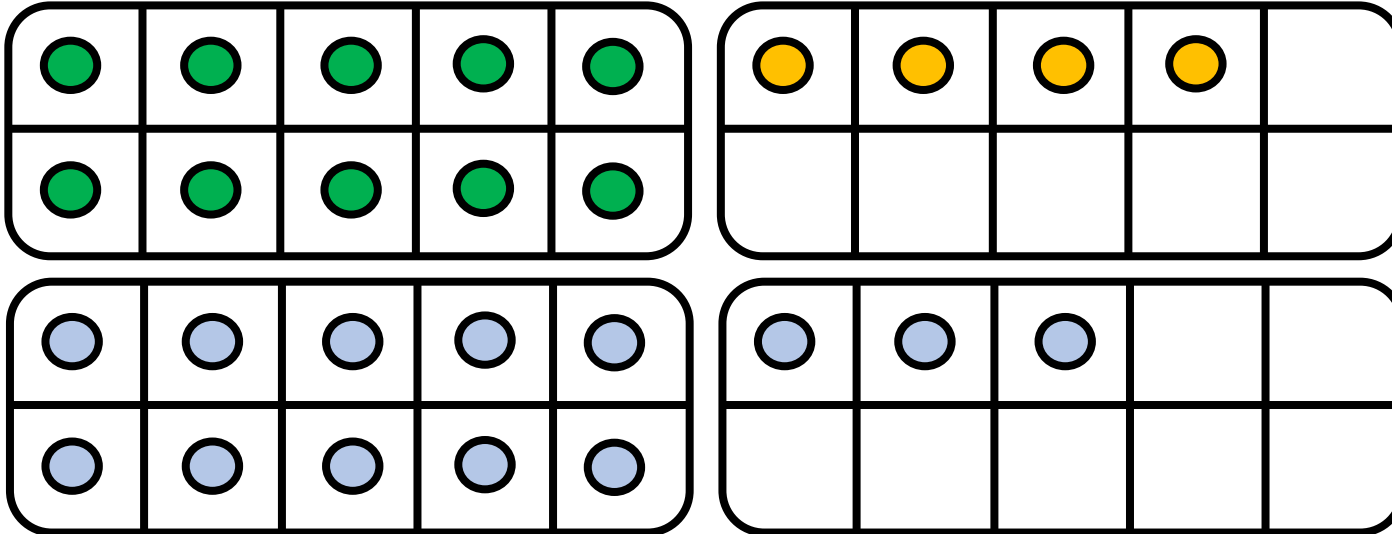
10 + 4

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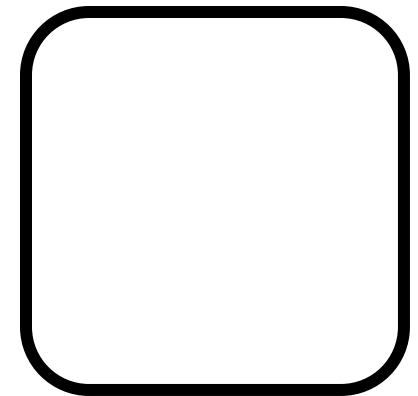
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?



$$14 + 13 = \underline{\hspace{2cm}}$$

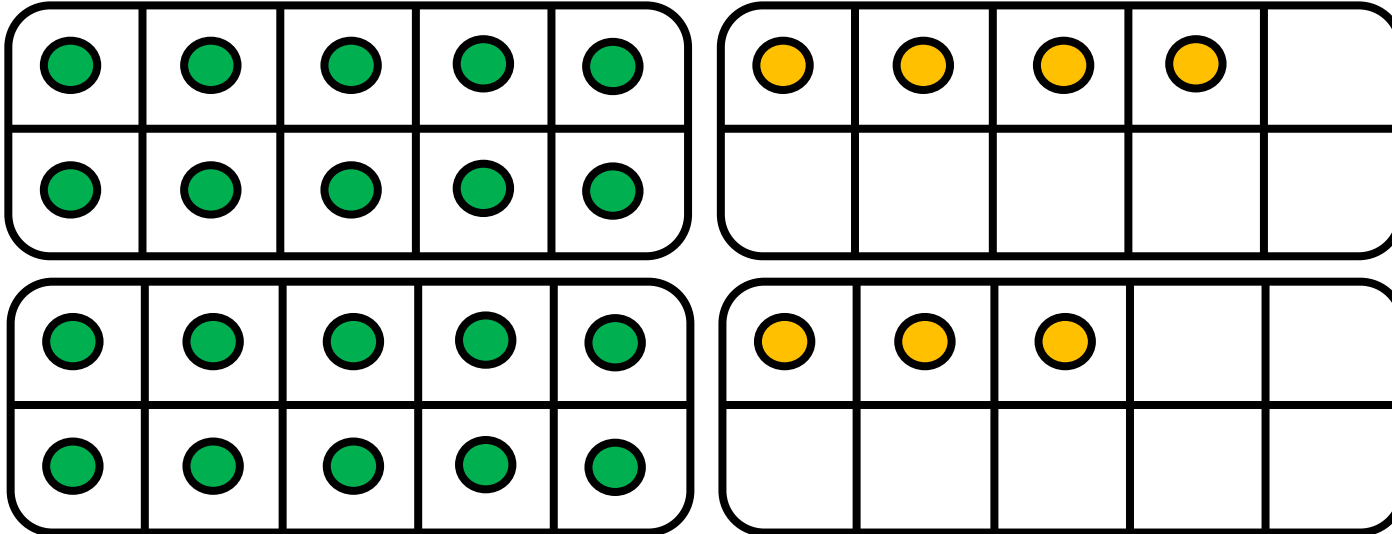
$$10 + 4$$





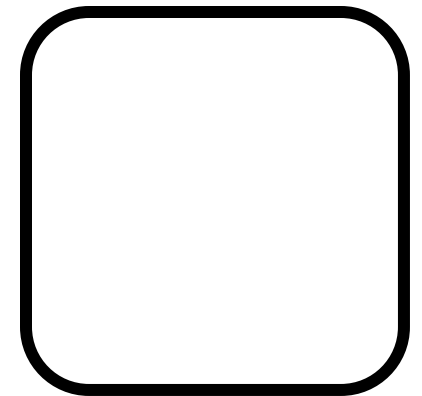
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?



$$14 + 13 = \underline{\hspace{2cm}}$$

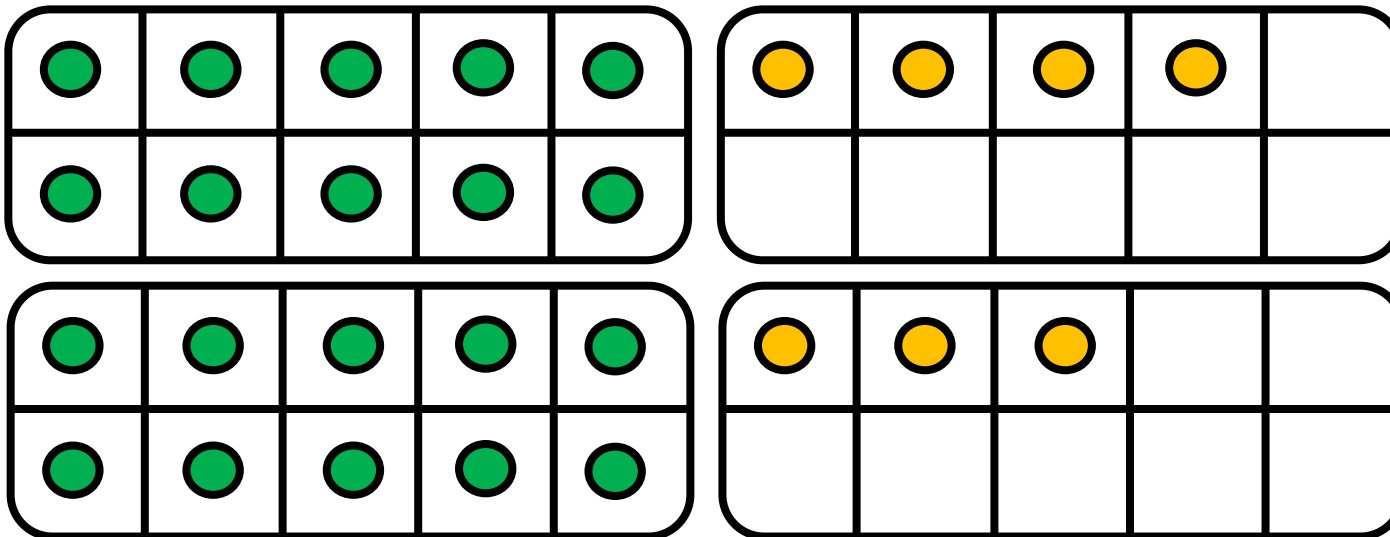
$$10 + 4 + 10 + 3$$





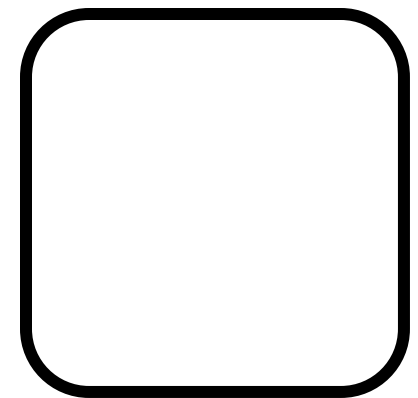
CM 22: Utiliser la technique des presque doubles <20

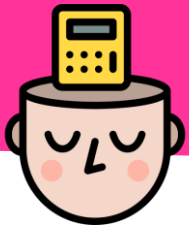
Combien font $14 + 13$?



$$14 + 13 = \underline{\hspace{2cm}}$$

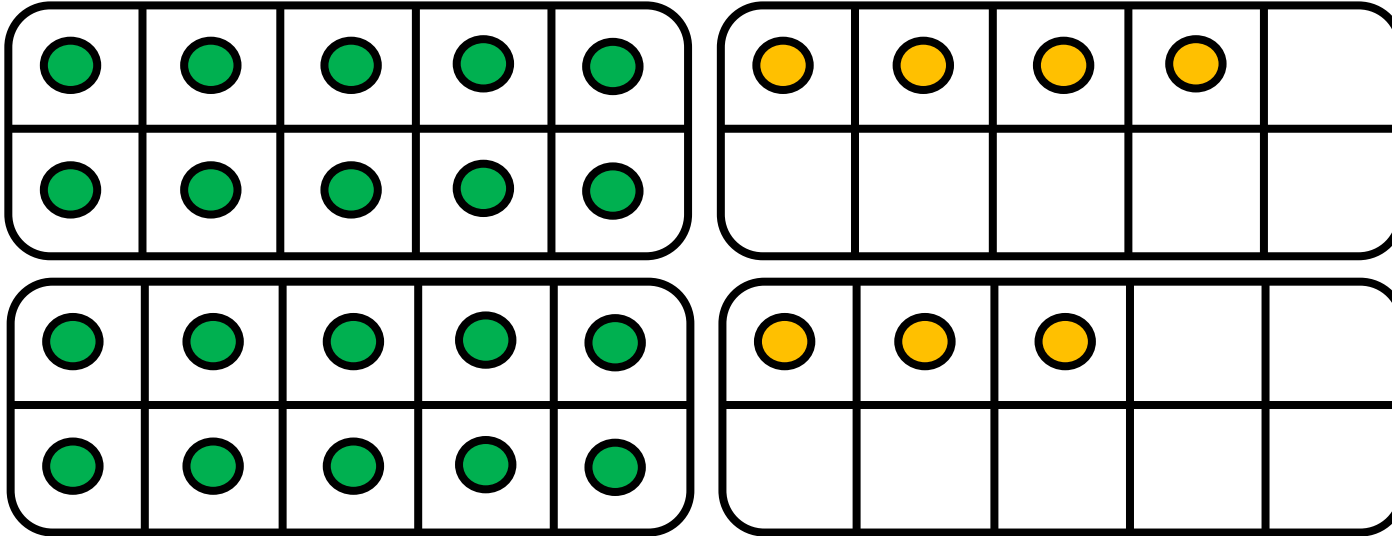
$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 3 \\ & & & & \swarrow & & \searrow \\ & & & & 20 & & \end{array}$$





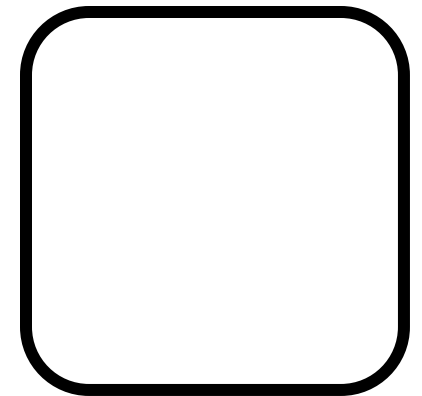
CM 22: Utiliser la technique des presque doubles <20

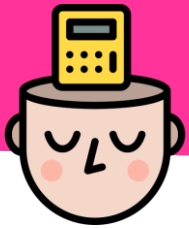
Combien font $14 + 13$?



$$14 + 13 = \underline{\hspace{2cm}}$$

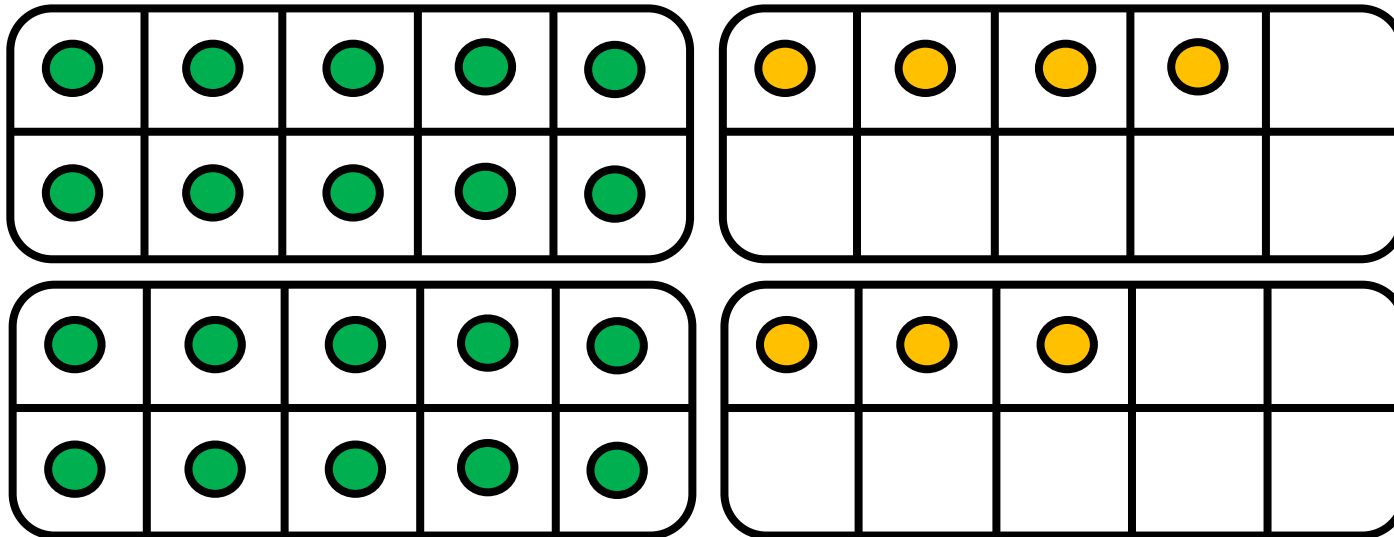
$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 3 \\ & & \diagdown & & / & & / \\ & & 20 & + & 7 & & \end{array}$$





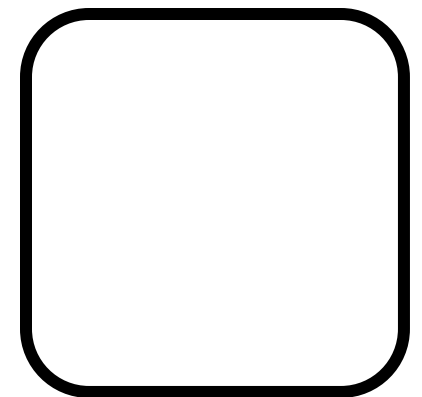
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 13$?



$$14 + 13 = \underline{27}$$

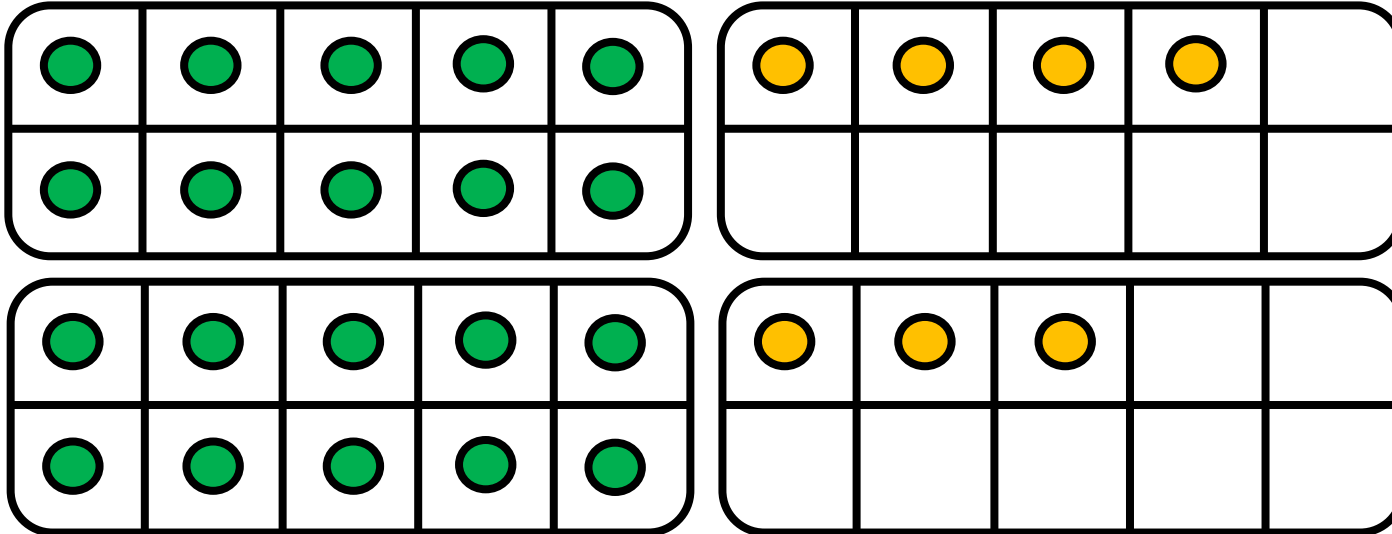
$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 3 \\ & \swarrow & & \searrow & \swarrow & & \searrow \\ & & 20 & + & 7 & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

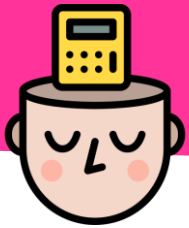
Combien font $14 + 13$?



$$14 + 13 = \underline{27}$$

$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 3 \\ & & \diagdown & & \diagup & & \diagdown \\ & & 20 & + & 7 & & \end{array}$$

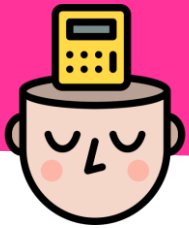
27



CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

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CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

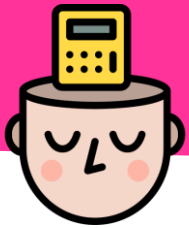
●	●	●	●	●
●	●	●	●	●

●	●	●	●	●
●	●	●		

$$\begin{array}{r} 18 \\ \swarrow \searrow \\ 10 + 8 \end{array}$$

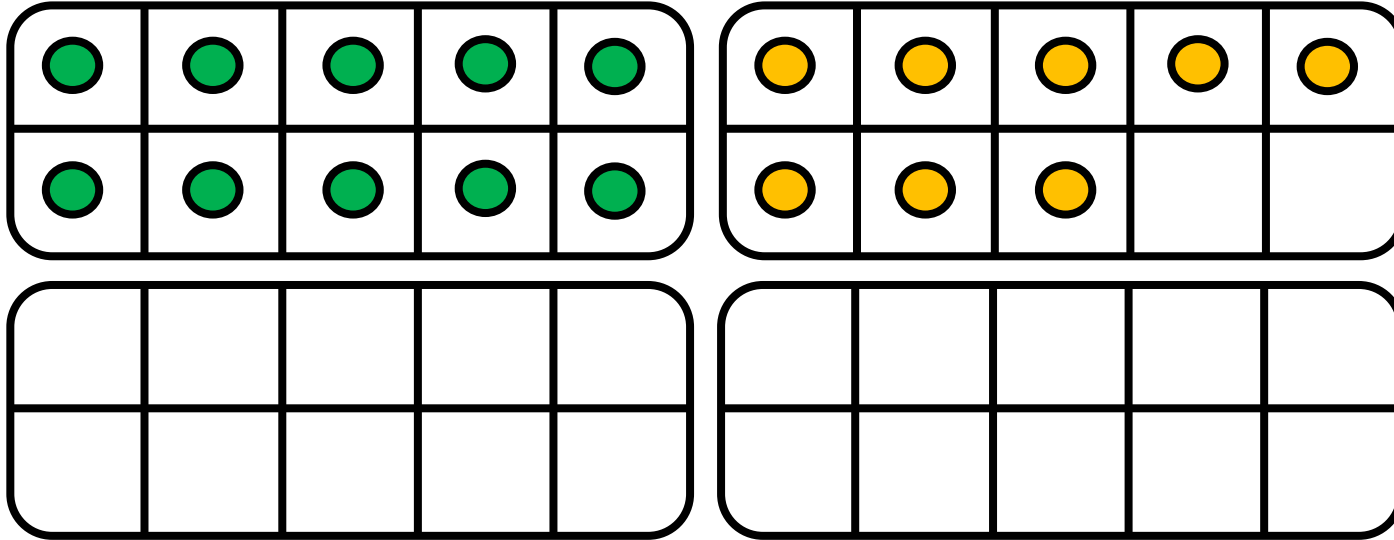
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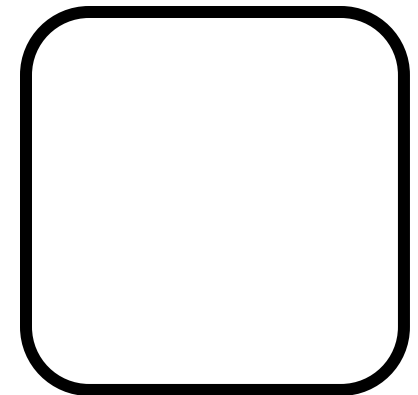
CM 22: Utiliser la technique des presque doubles <20

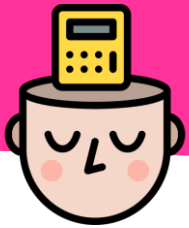
Combien font $18 + 17$?



$$\begin{array}{c} 18 \\ \swarrow \quad \searrow \\ 10 + 8 \end{array}$$

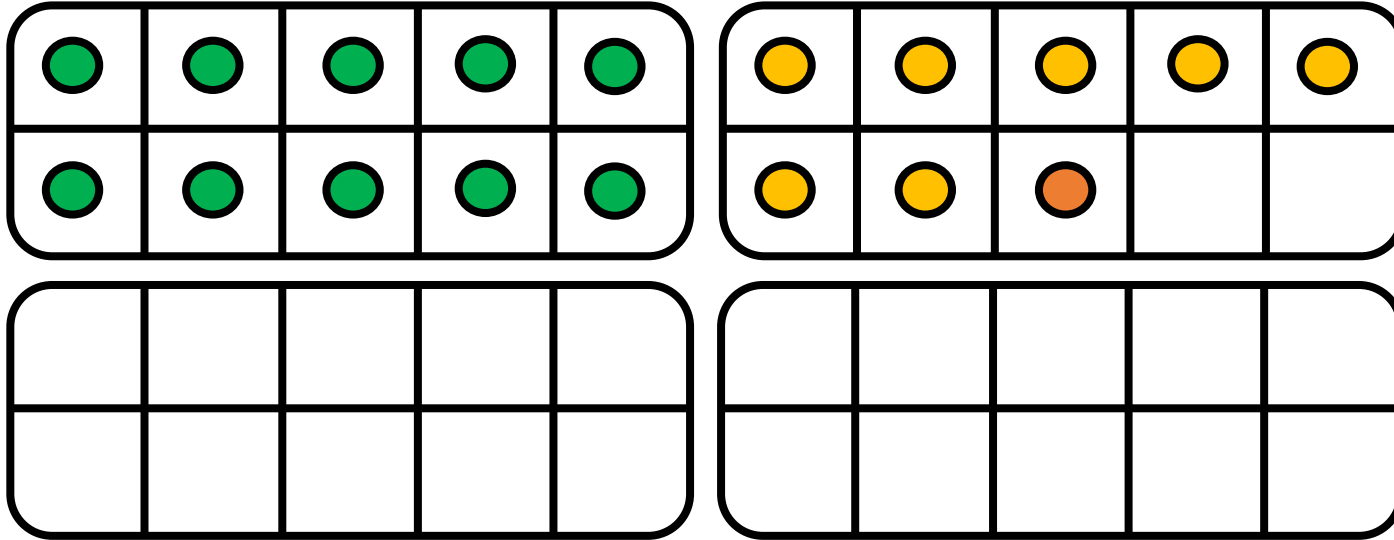
$$= \underline{\hspace{2cm}}$$





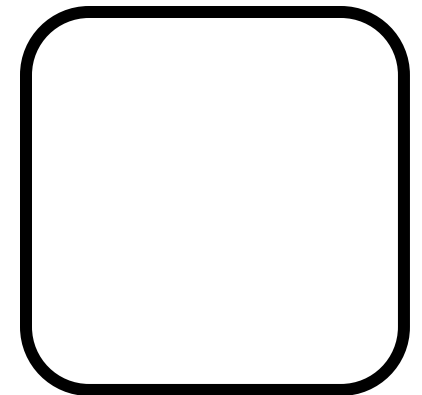
CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



$$\begin{array}{c} 18 \\ \swarrow \quad \searrow \\ 10 + 7 + 1 \end{array}$$

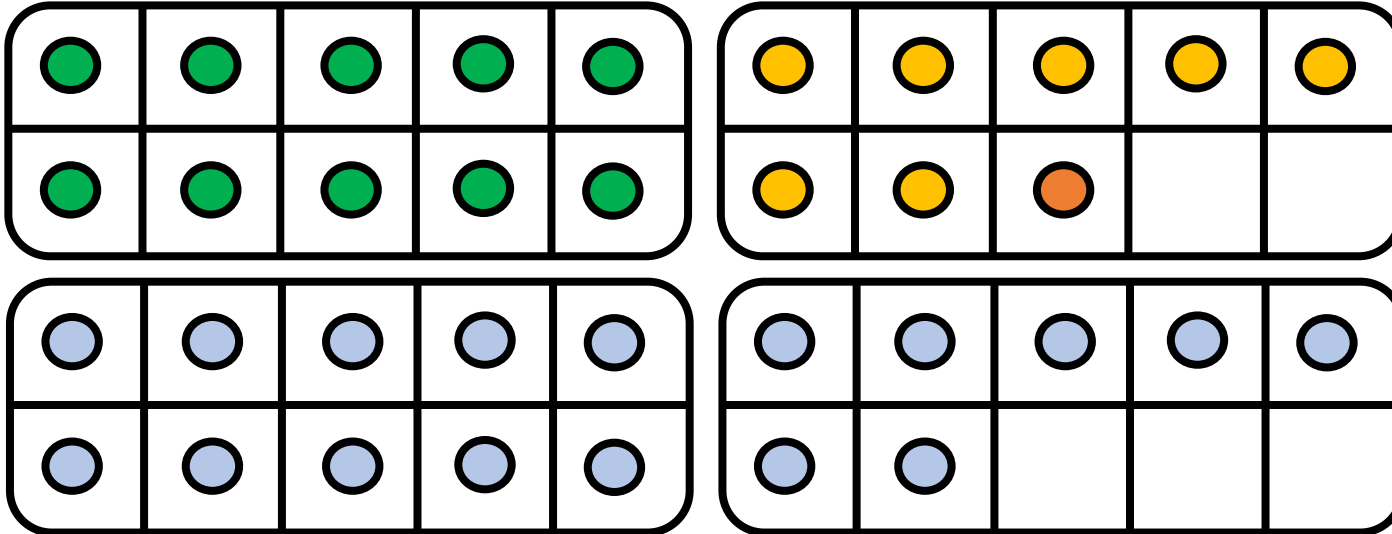
$$= \underline{\hspace{2cm}}$$



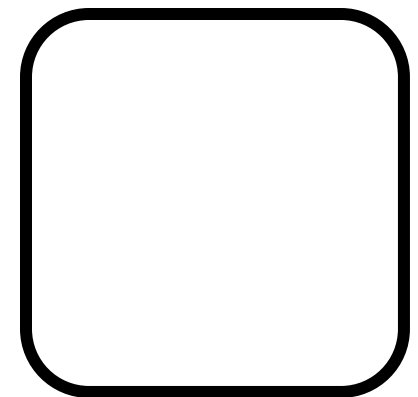


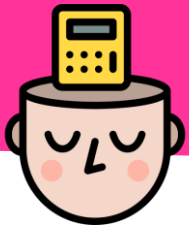
CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



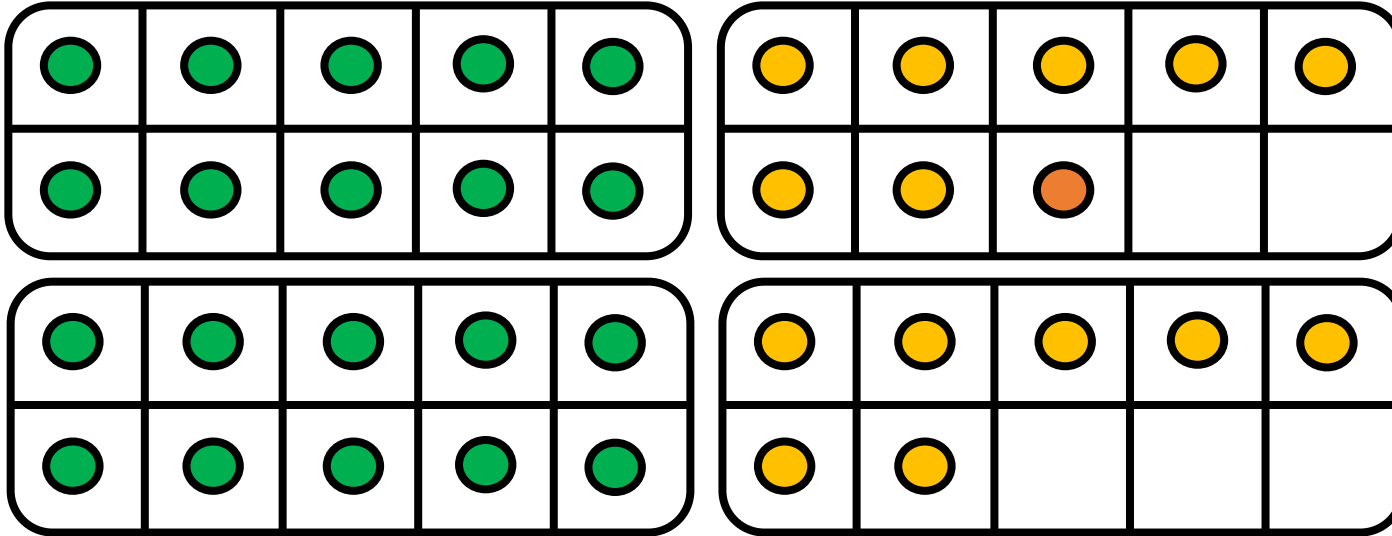
$$\begin{array}{c} 18 \\ \swarrow \quad \downarrow \quad \searrow \\ 10 + 7 + 1 \end{array} + 17 = \underline{\hspace{2cm}}$$





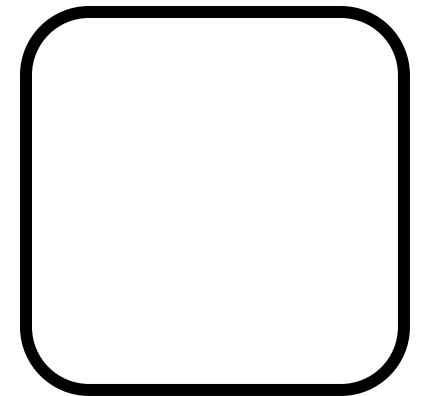
CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



$$\begin{array}{c} 18 \\ \swarrow \quad \searrow \\ 10 \quad 7 \end{array} + 17 = \underline{\hspace{2cm}}$$

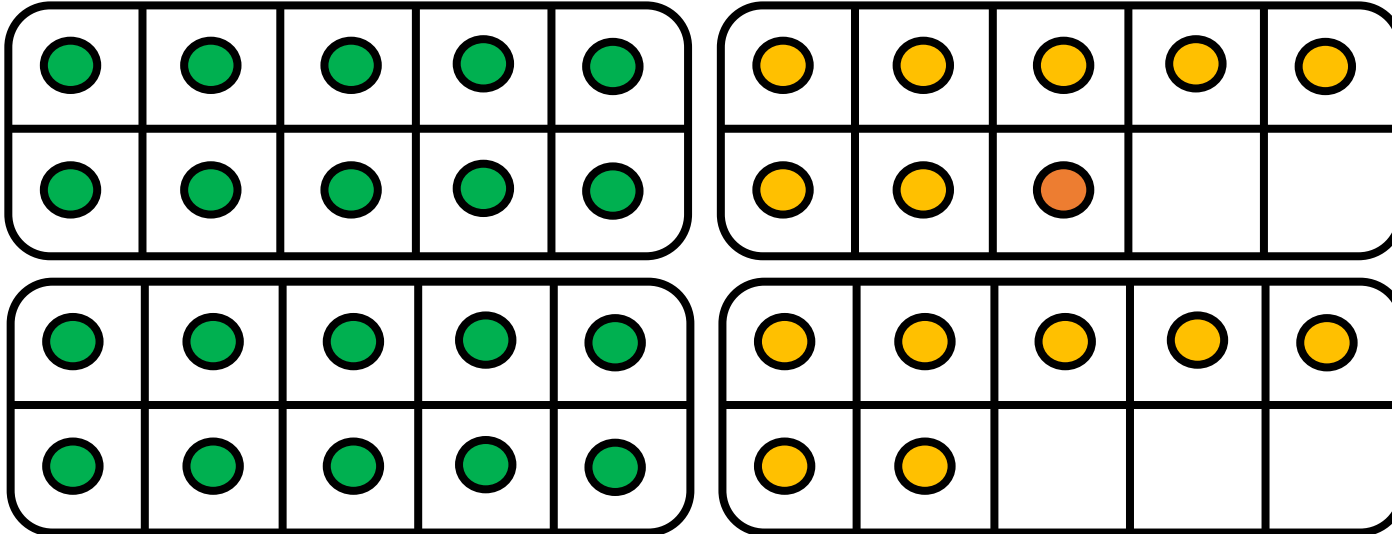
$10 + 7 + 1 + 10 + 7$





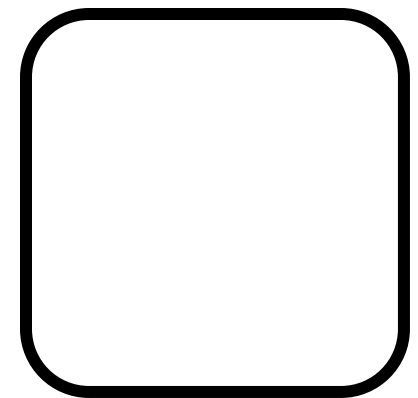
CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



$$18 + 17 = \underline{\hspace{2cm}}$$

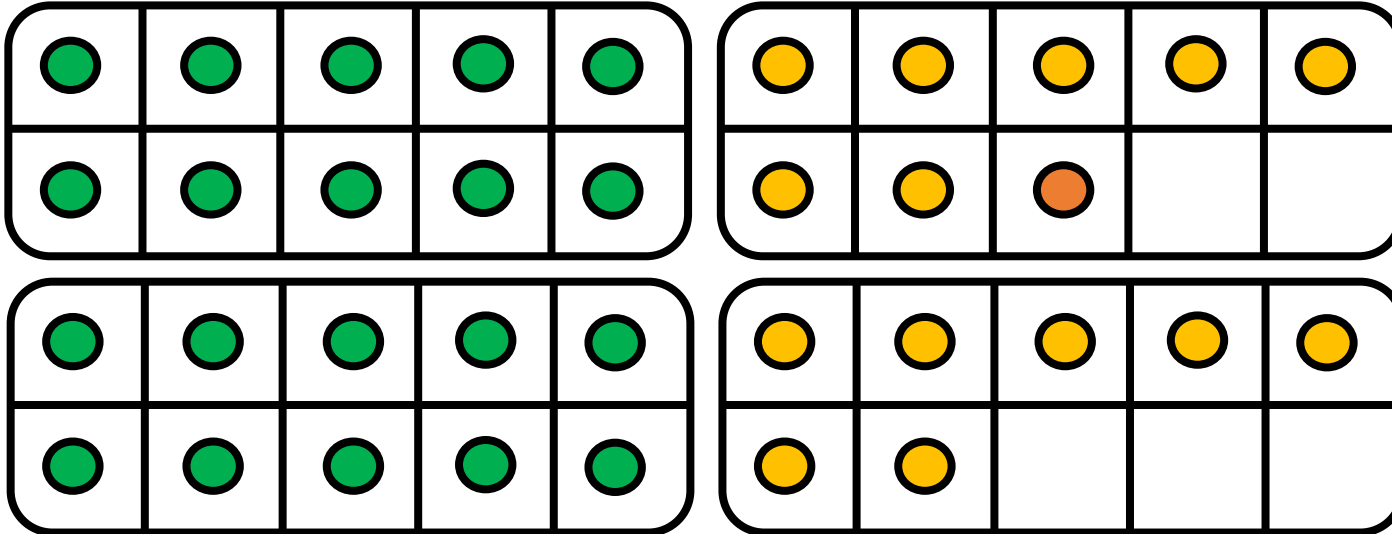
$10 + 7 + 1 + 10 + 7$





CM 22: Utiliser la technique des presque doubles <20

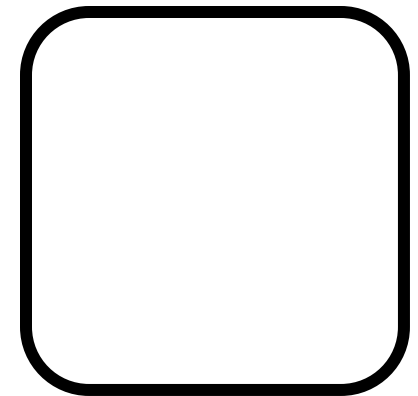
Combien font $18 + 17$?



$$18 + 17 = \underline{\hspace{2cm}}$$

$10 + 7 + 1 + 10 + 7$

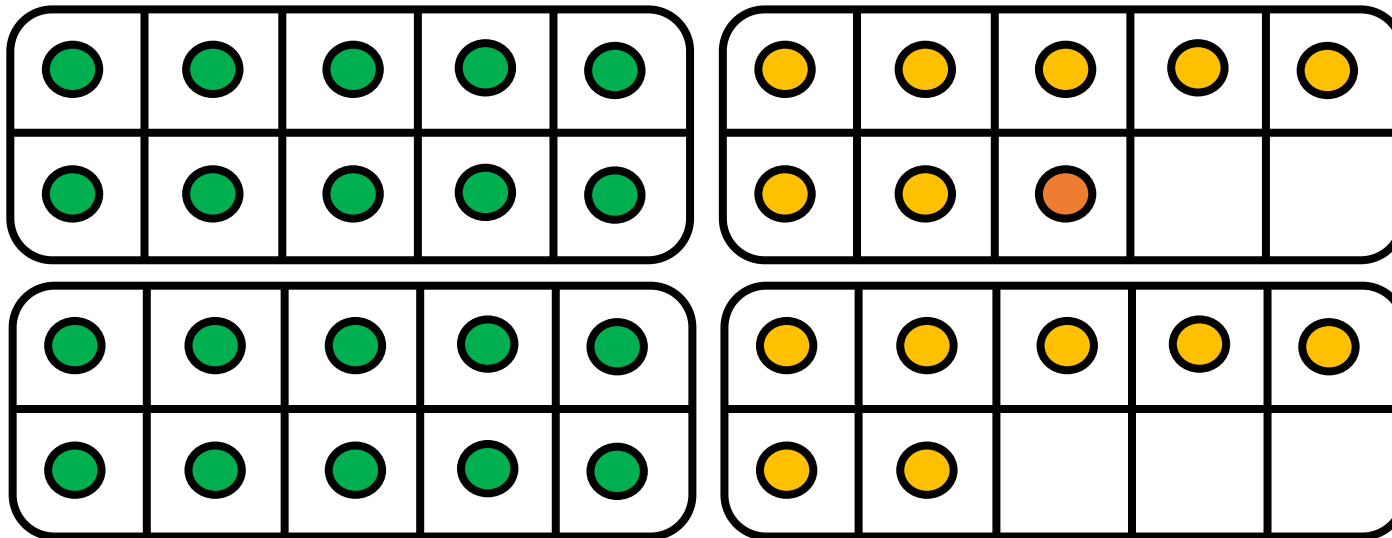
14





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

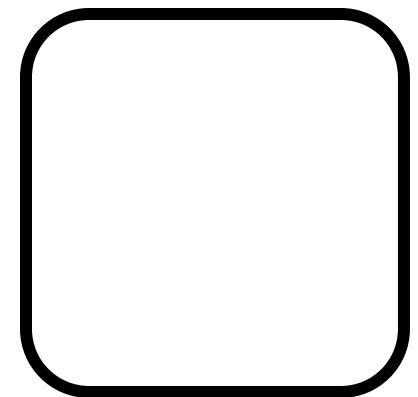


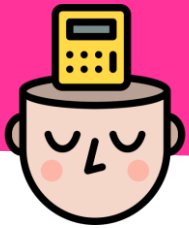
$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

$$10 + 7 + 1 + 10 + 7$$

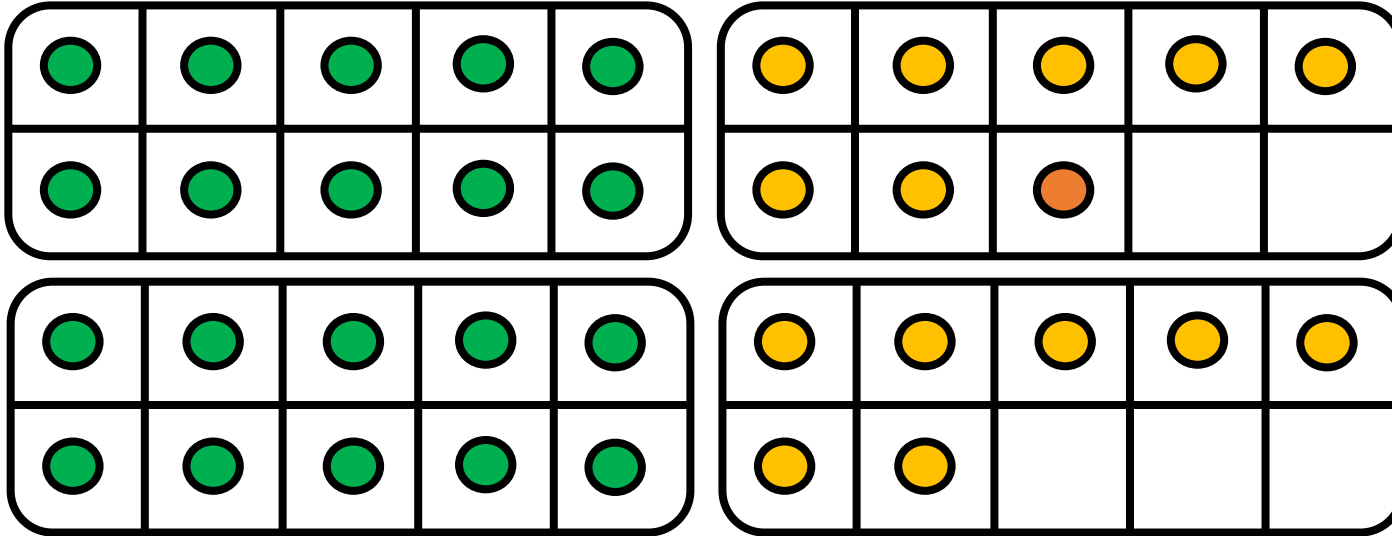
The diagram shows lines connecting the 10s and 7s to form a 14, representing the sum of the tens and ones digits.





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



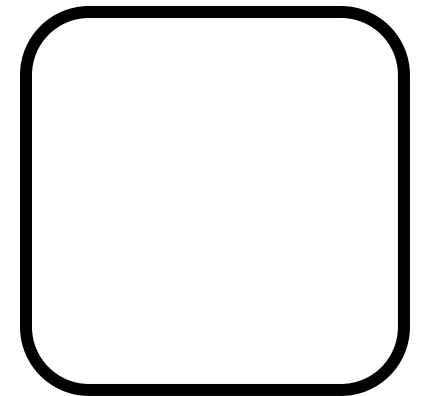
$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

$$10 + 7 + 1 + 10 + 7$$

The diagram shows lines connecting the 10s to form 20 and the 7s to form 14, with the 1 from the 17 being added to the 10 from the 18 to make 11.

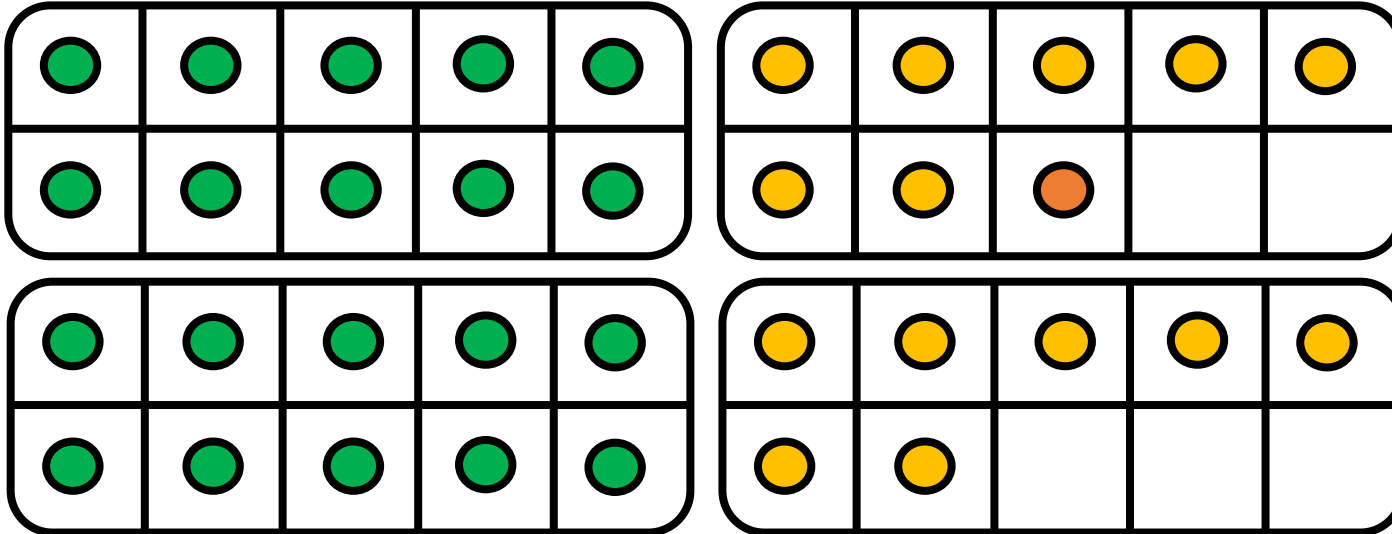
20 14





CM 22: Utiliser la technique des presque doubles < 20

Combien font $18 + 17$?

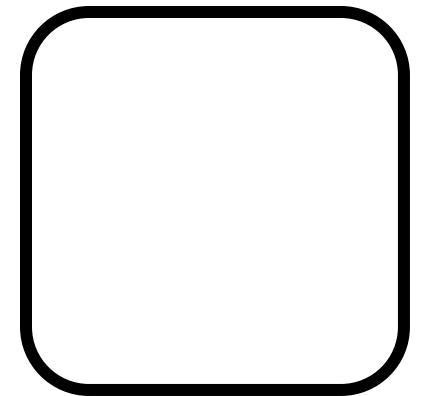


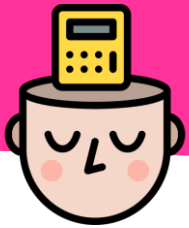
$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 into tens and ones:

$$10 + 7 + 1 + 10 + 7$$

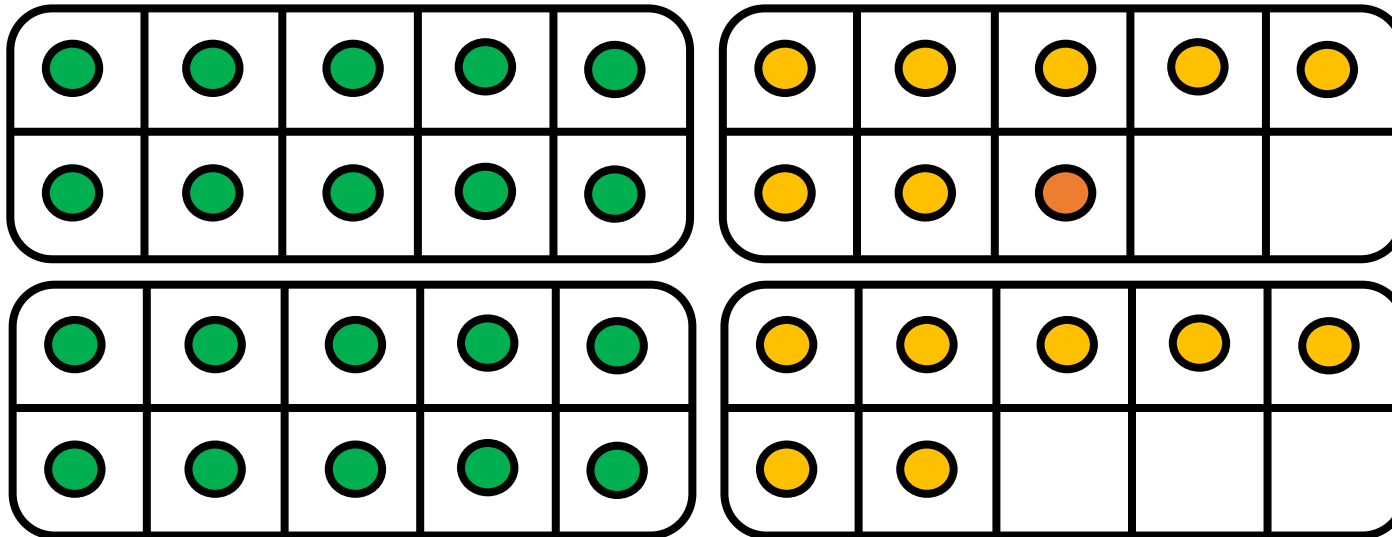
The diagram shows the decomposition of 18 into 10 and 7, and 17 into 10 and 7. The 10s are grouped together to form 20, and the 7s are grouped together to form 14. The final sum is 20 + 14 = 34.





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



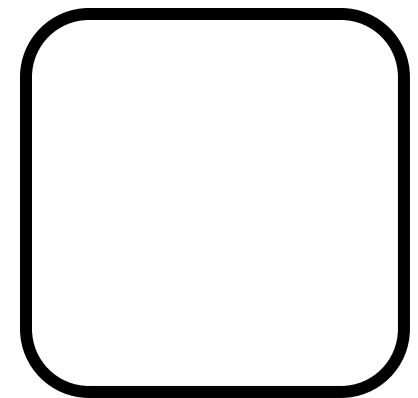
$$18 + 17 = \underline{\hspace{2cm}}$$

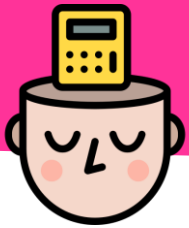
Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

$$10 + 7 + 1 + 10 + 7$$

Connections shown by lines:

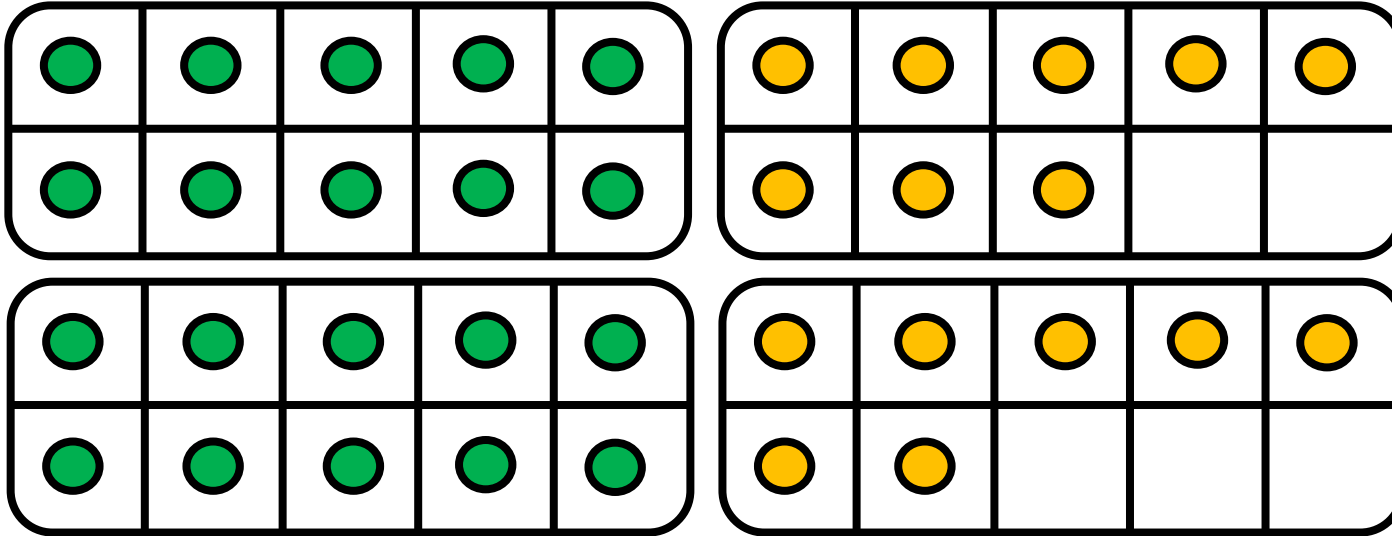
- 10 (green) + 10 (green) = 20 (green)
- 7 (yellow) + 7 (yellow) = 14 (yellow)
- 1 (orange) + 1 (orange) = 1 (orange)





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

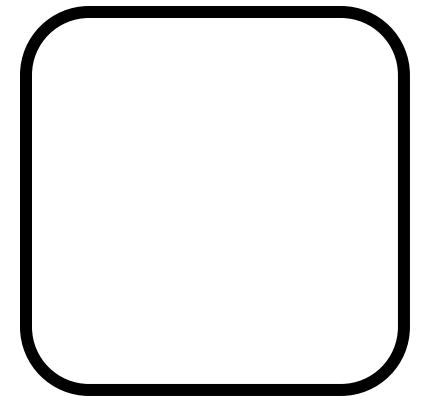


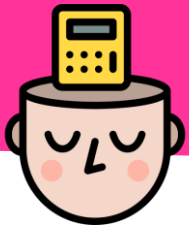
$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

18 is decomposed into $10 + 7 + 1$.
 17 is decomposed into $10 + 7$.

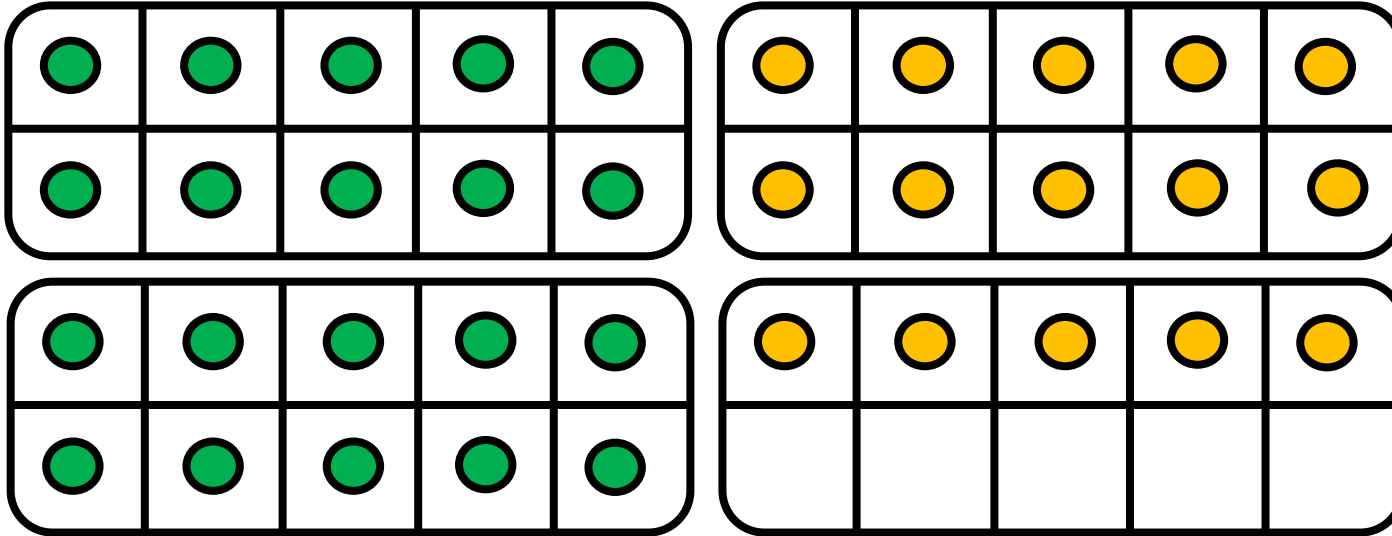
The calculation is shown as: $10 + 7 + 1 + 10 + 7$.
The first two terms ($10 + 7$) are grouped to form 20 .
The next two terms ($10 + 7$) are grouped to form 15 .
The final result is $20 + 15 = 35$.





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

18 is decomposed into $10 + 7 + 1$.

17 is decomposed into $10 + 7$.

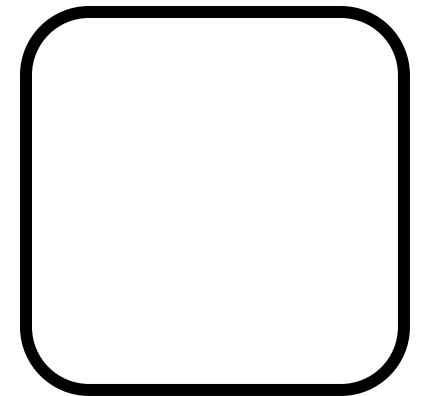
The calculation is shown as:

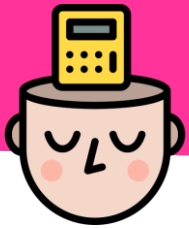
$$10 + 7 + 1 + 10 + 7$$

Grouping the tens and ones:

$10 + 10 = 20$ (tens)

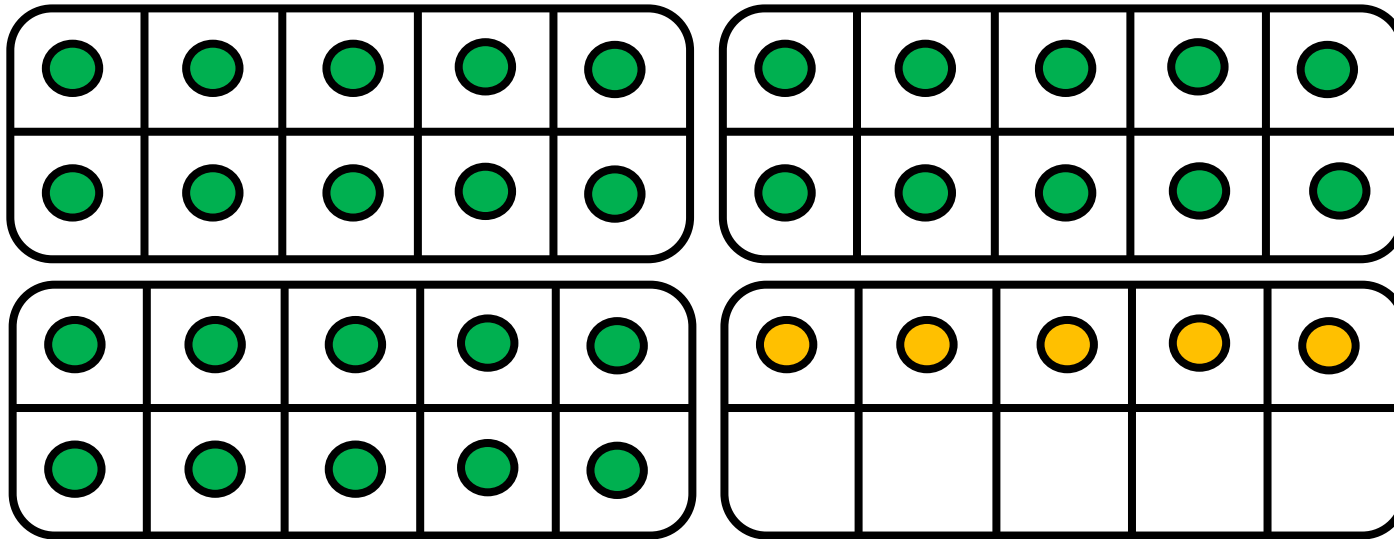
$7 + 7 + 1 = 15$ (ones)





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?



$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

18 is decomposed into $10 + 7 + 1$.

17 is decomposed into $10 + 7$.

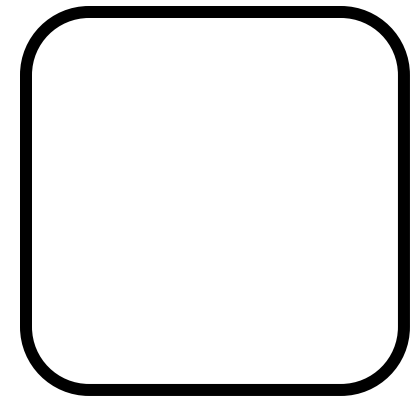
The calculation is shown as:

$$10 + 7 + 1 + 10 + 7$$

Grouping the tens and ones:

$10 + 10 = 20$ (tens)

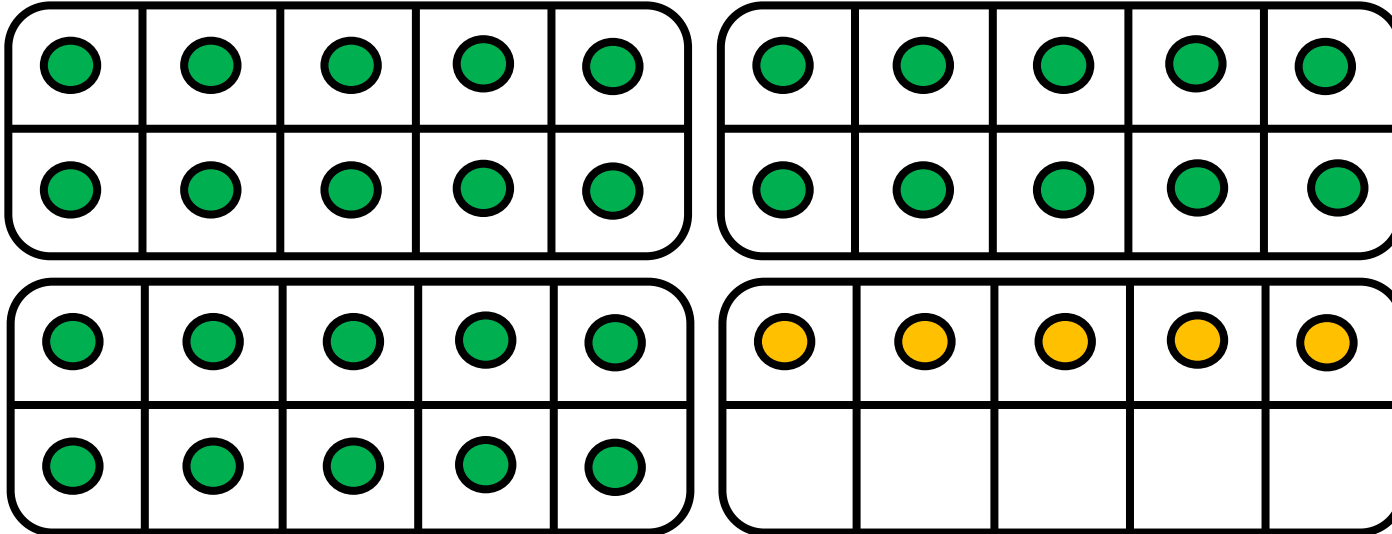
$7 + 7 + 1 = 15$ (ones)





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

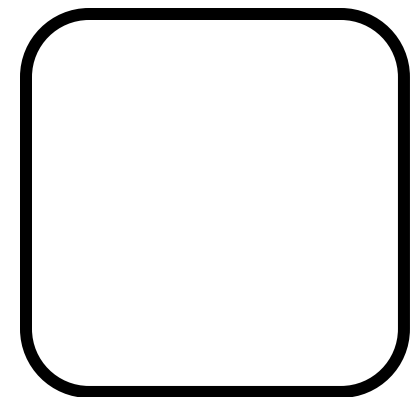


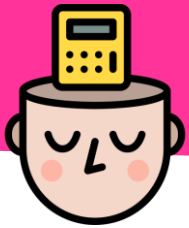
$$18 + 17 = \underline{\hspace{2cm}}$$

Diagram illustrating the decomposition of 18 and 17 for the 'almost doubles' technique:

18 is decomposed into $10 + 7 + 1$.
 17 is decomposed into $10 + 7$.

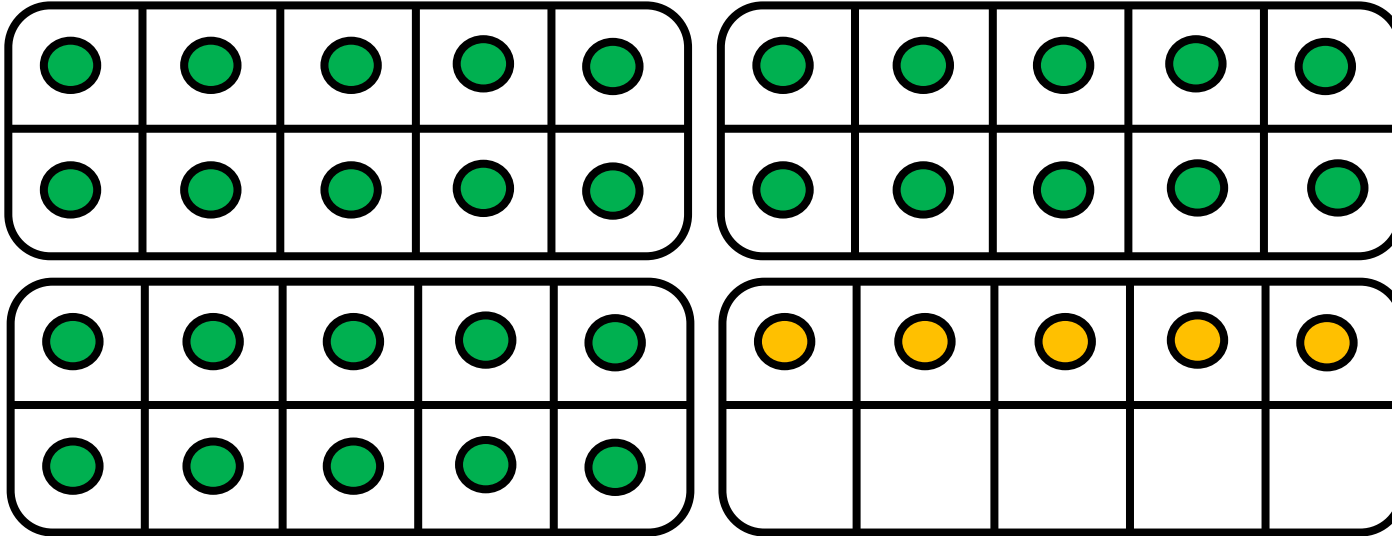
The decomposition shows that $10 + 10 = 20$ and $7 + 7 = 14$, which together make $20 + 14 = 34$. The diagram also shows a 30 and a 5 at the bottom, indicating the final sum is 34 .





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 17$?

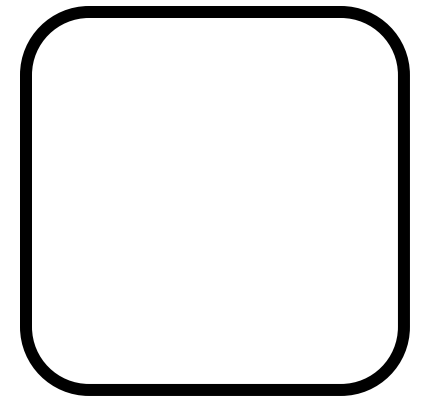


$$18 + 17 = 35$$

Diagram illustrating the calculation using the 'almost doubles' technique:

$10 + 7 + 1 + 10 + 7$

The diagram shows the decomposition of 18 into 10 and 8, and 17 into 10 and 7. The 8 is further decomposed into 7 and 1. The 10s are grouped to form 30, and the 7s are grouped to form 14. The final result is 35.





A 2x5 grid of 10 boxes, each containing a green circle. The top row has 5 green circles, and the bottom row has 5 green circles.

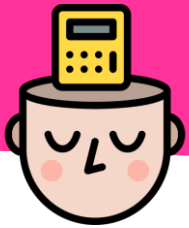
35



CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?

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CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?

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●	●	●	●	●	●					

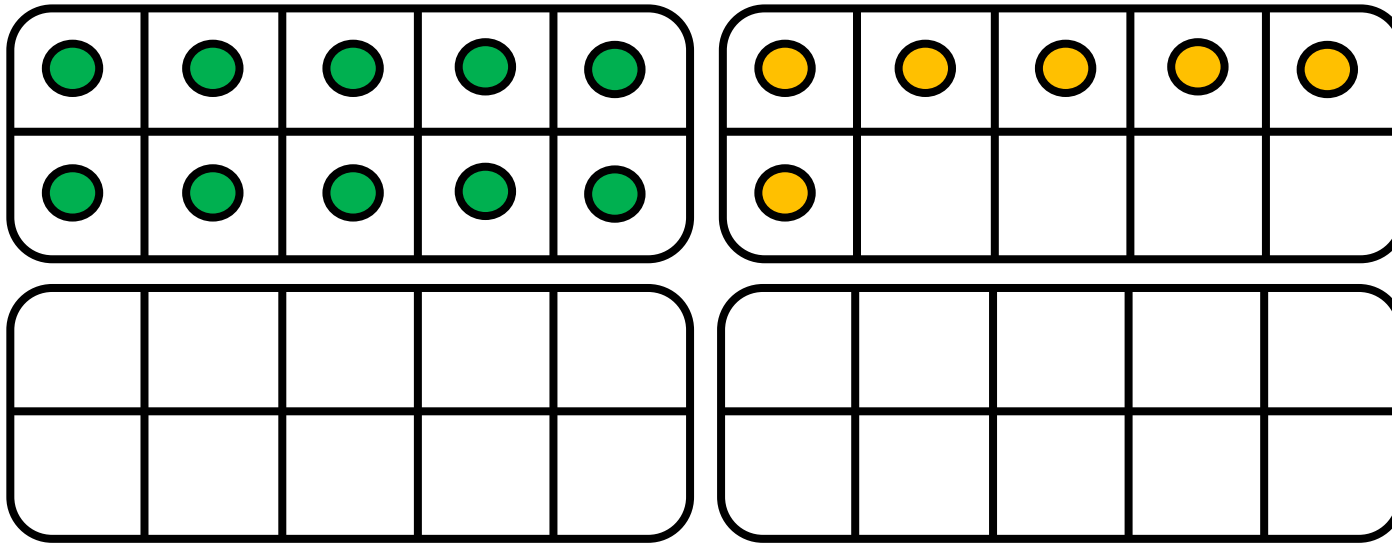
$$\begin{array}{r} 16 \\ \swarrow \searrow \\ 10 + 6 \end{array}$$

$$= \underline{\hspace{2cm}}$$



CM 22: Utiliser la technique des presque doubles <20

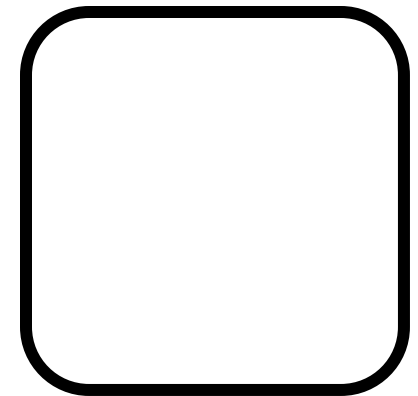
Combien font $16 + 17$?

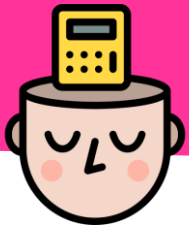


16

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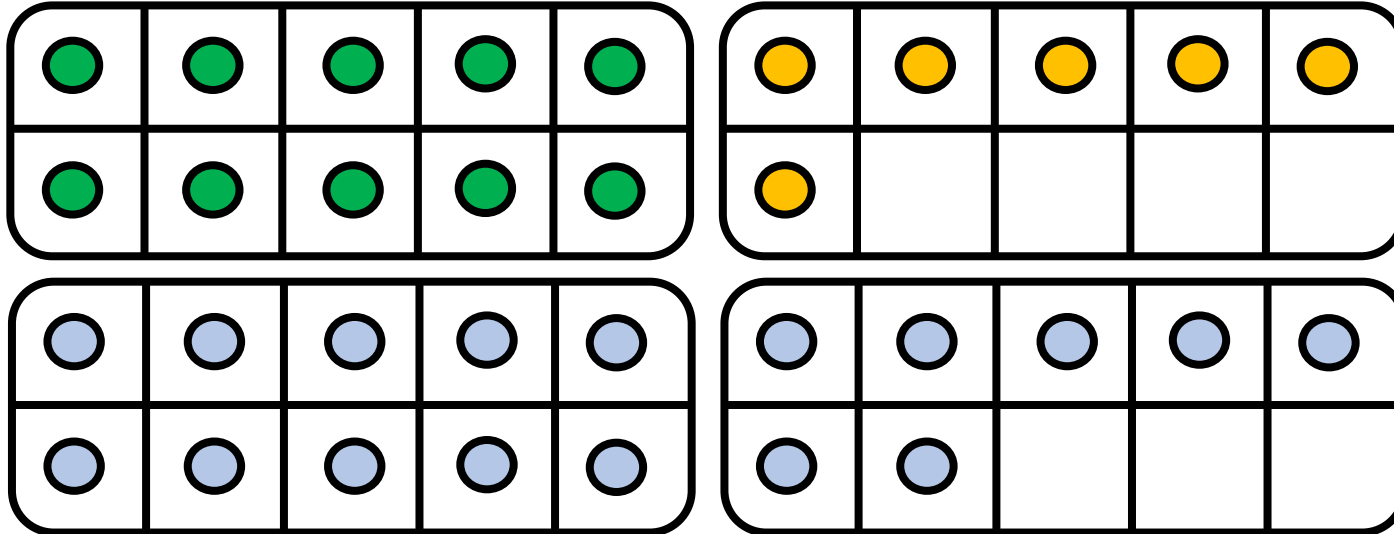
10 + 6





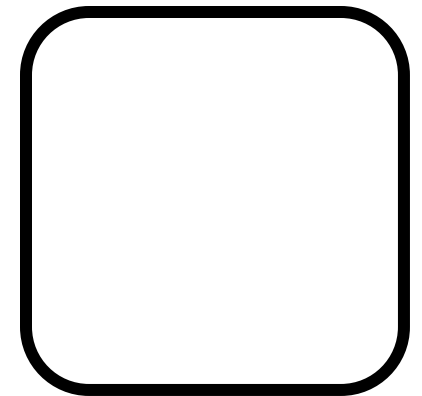
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

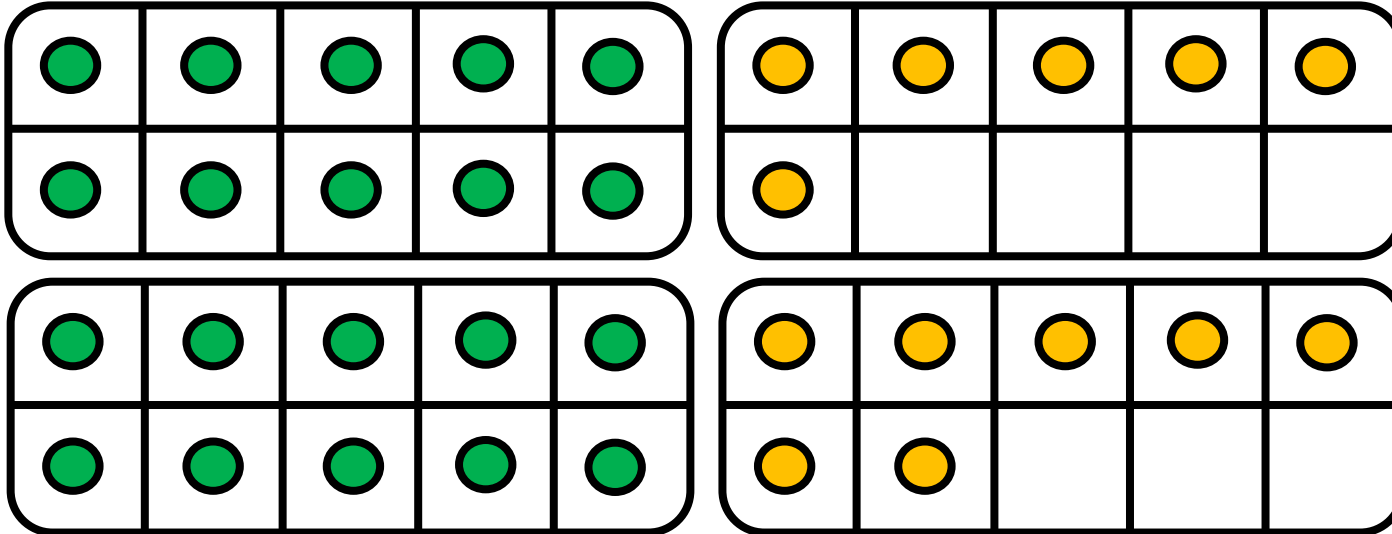
$$10 + 6$$





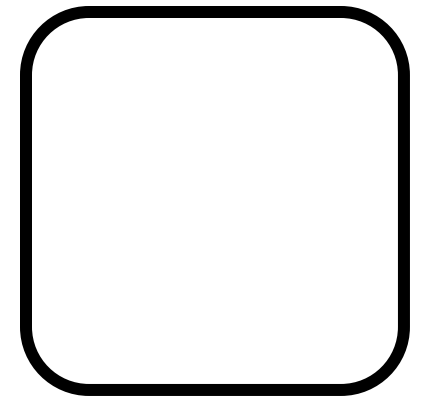
CM 22: Utiliser la technique des presque doubles <20

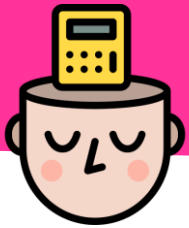
Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

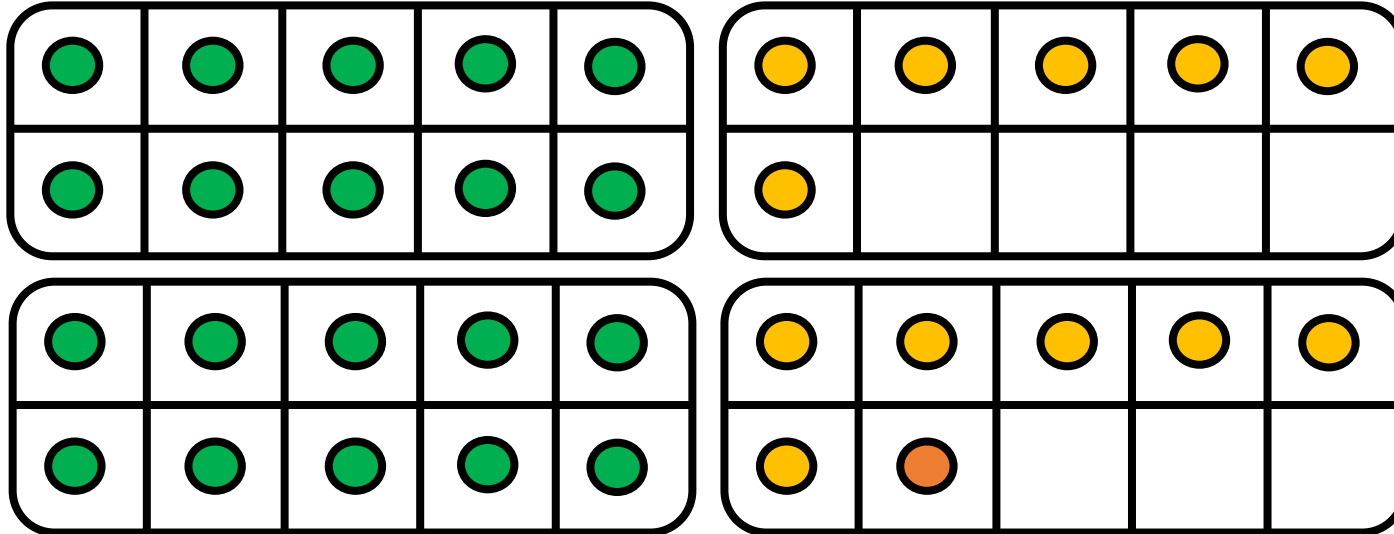
$$10 + 6 + 10 + 7$$





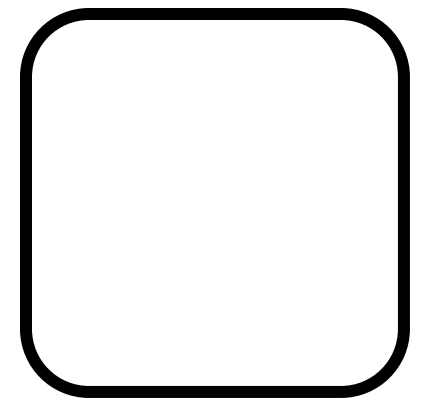
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

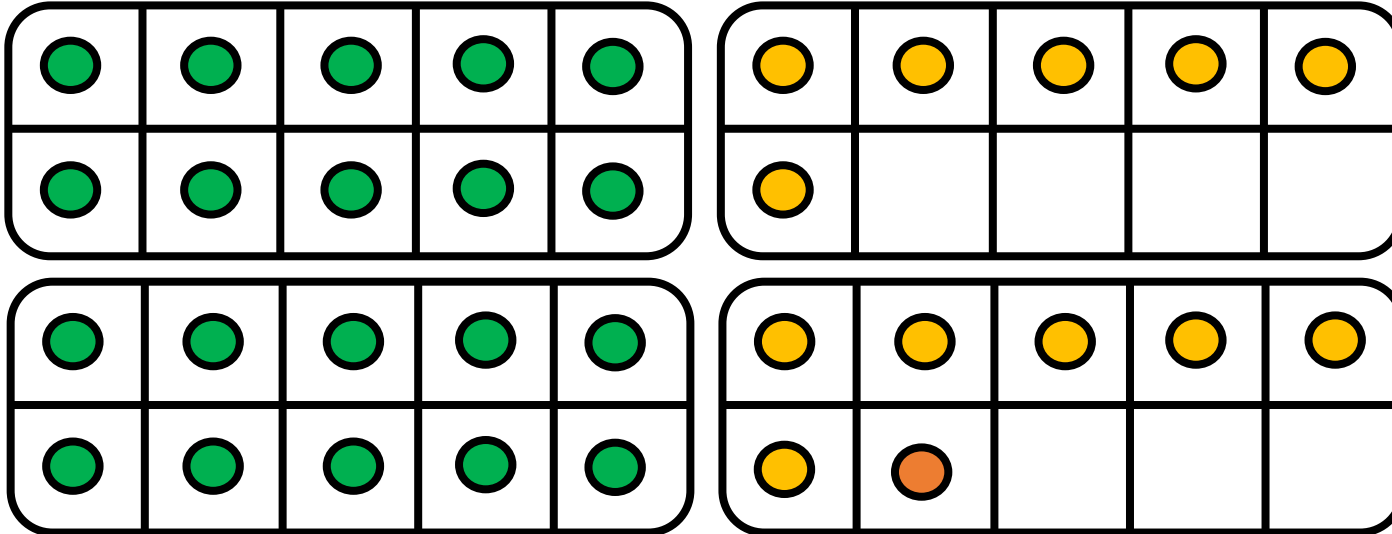
$$10 + 6 + 10 + 6 + 1$$





CM 22: Utiliser la technique des presque doubles <20

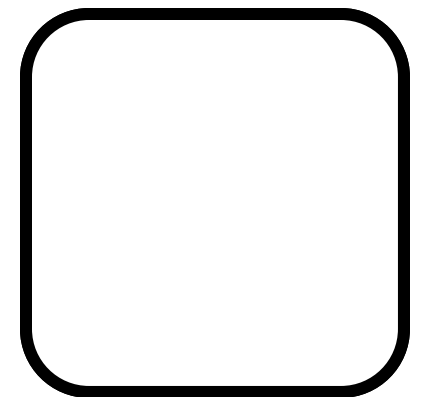
Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

$$10 + 6 + 10 + 6 + 1$$

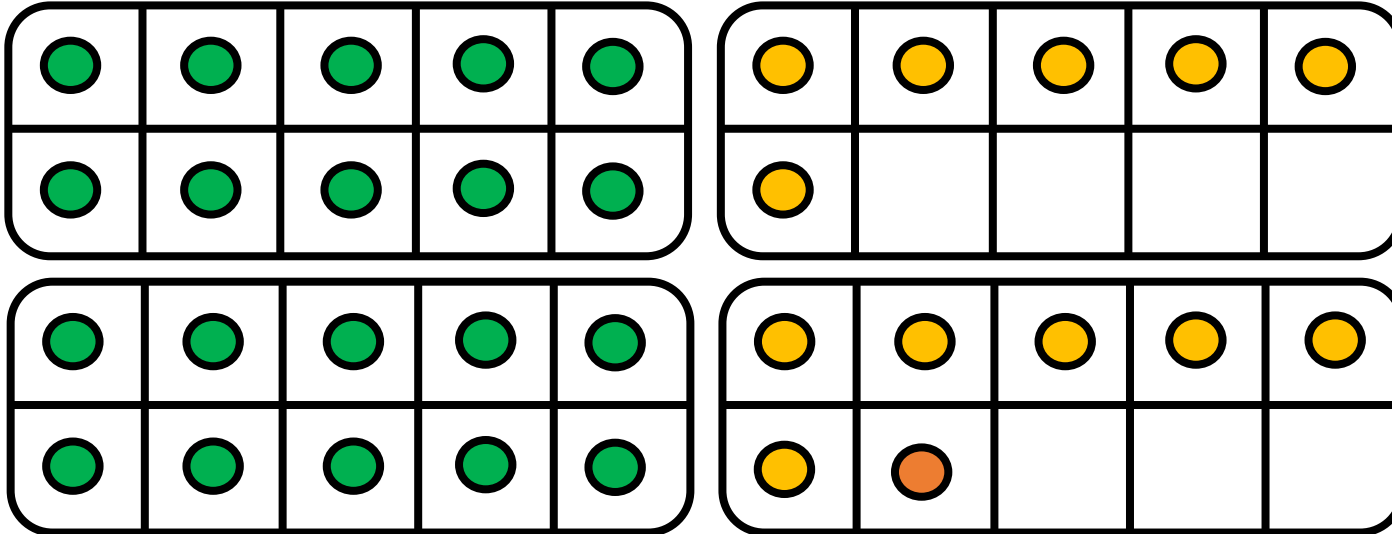
Diagram illustrating the decomposition of the numbers 16 and 17 into 10, 6, and 1. Brackets connect the 10 and 6 in the first row to the 10 and 6 in the second row, and the 1 in the second row to the 1 in the third row.





CM 22: Utiliser la technique des presque doubles <20

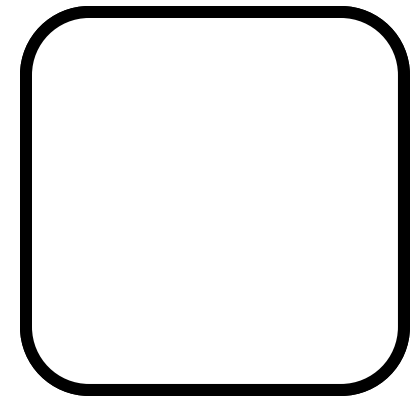
Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

$$10 + 6 + 10 + 6 + 1$$

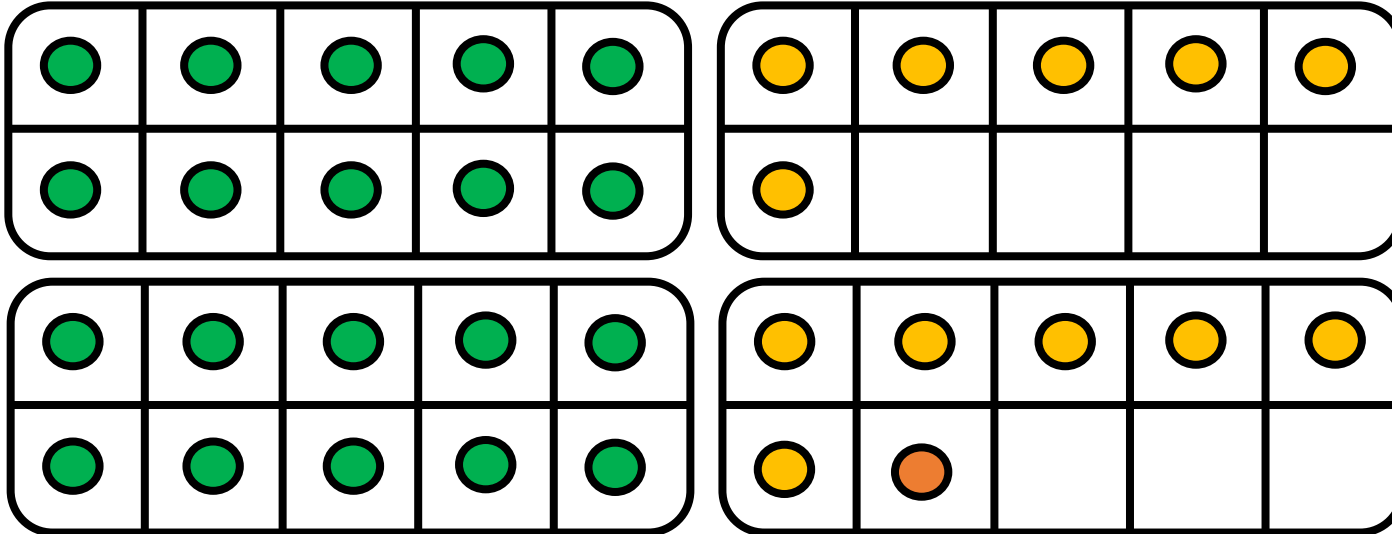
12





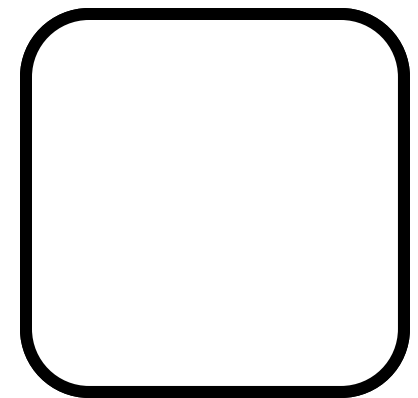
CM 22: Utiliser la technique des presque doubles <20

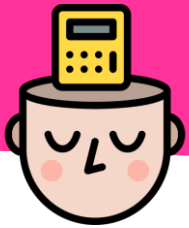
Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

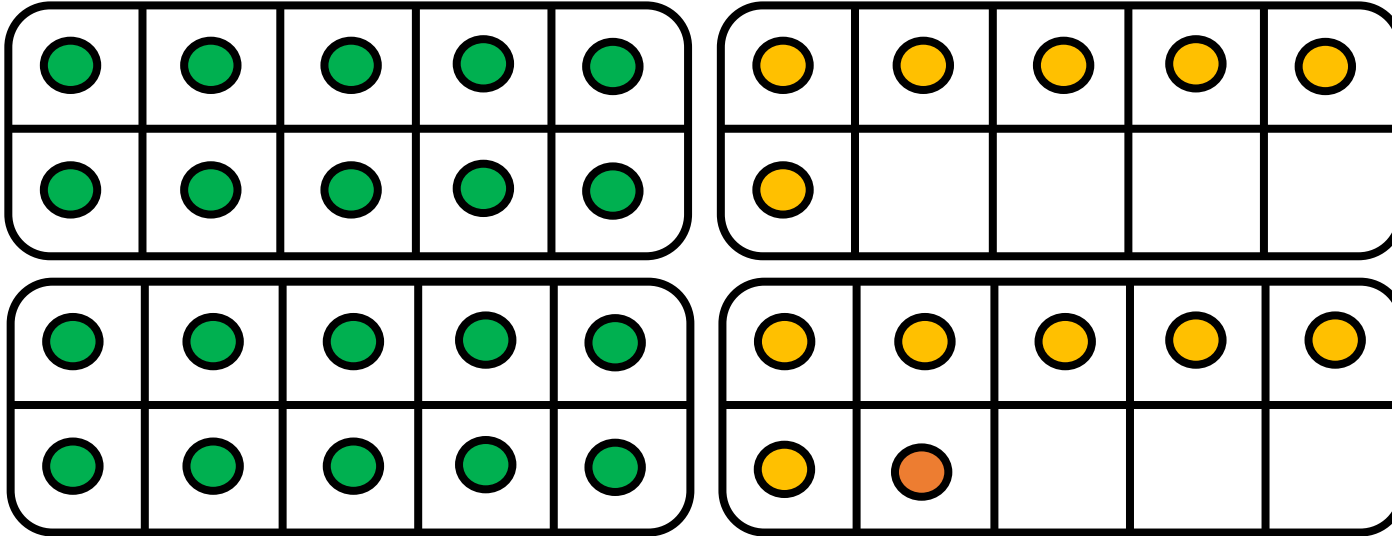
$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & & \swarrow & & \swarrow & & \swarrow & & \\ & & 12 & & 1 & & & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?

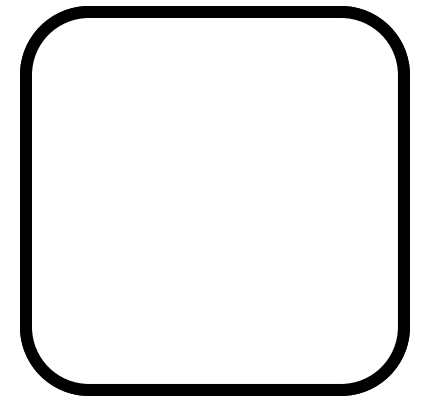


$$16 + 17 = \underline{\hspace{2cm}}$$

$$10 + 6 + 10 + 6 + 1$$

Diagram showing the decomposition of the numbers into tens and ones, with lines connecting the 6s to a 13 below them.

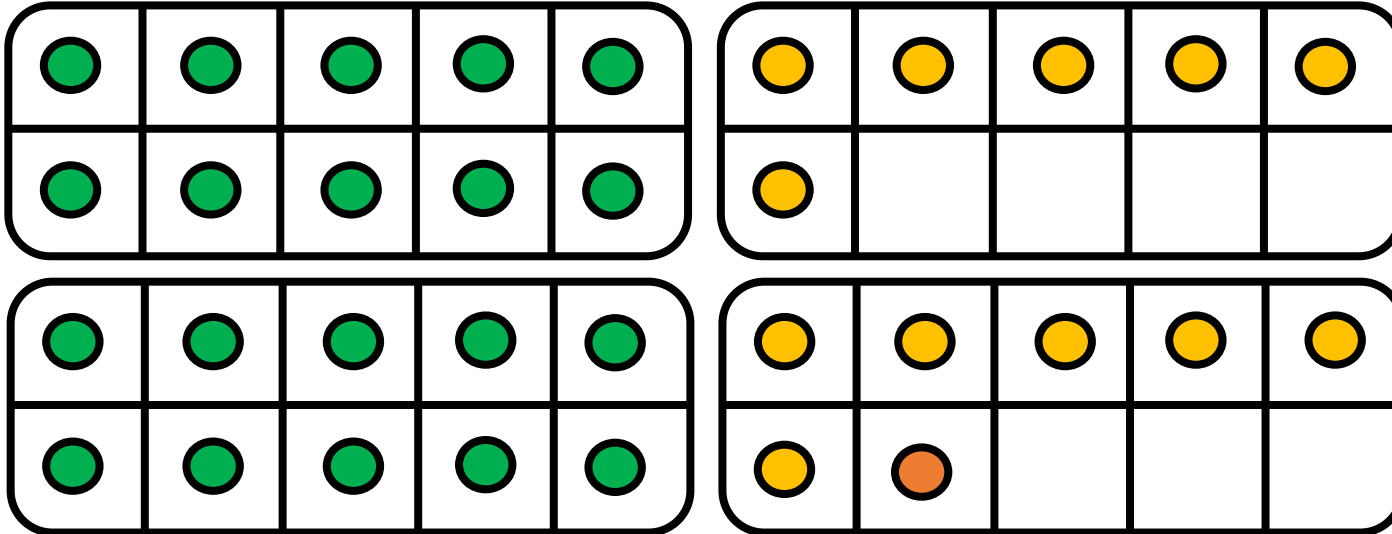
$$13$$





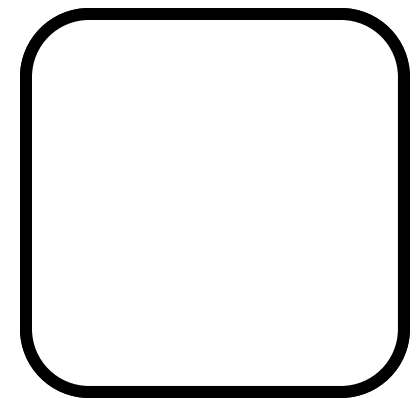
CM 22: Utiliser la technique des presque doubles <20

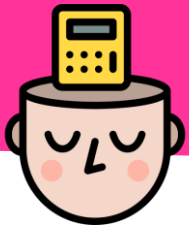
Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

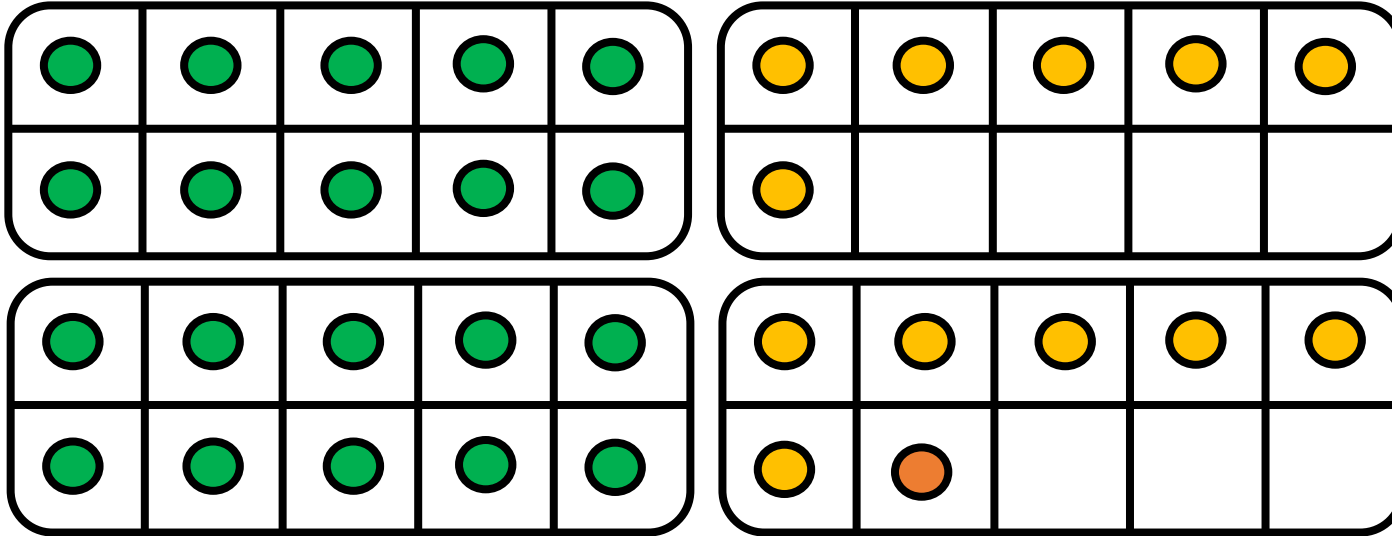
$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & \searrow & \swarrow & & \swarrow & \searrow & & & \\ & & & & 13 & & & & \end{array}$$





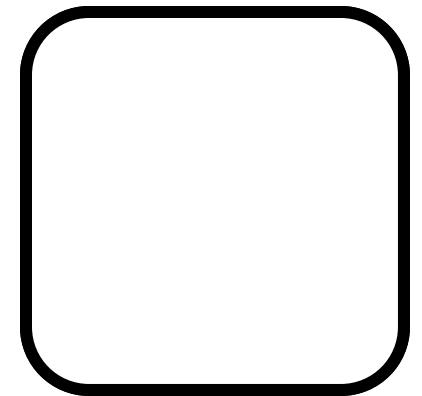
CM 22: Utiliser la technique des presque doubles < 20

Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

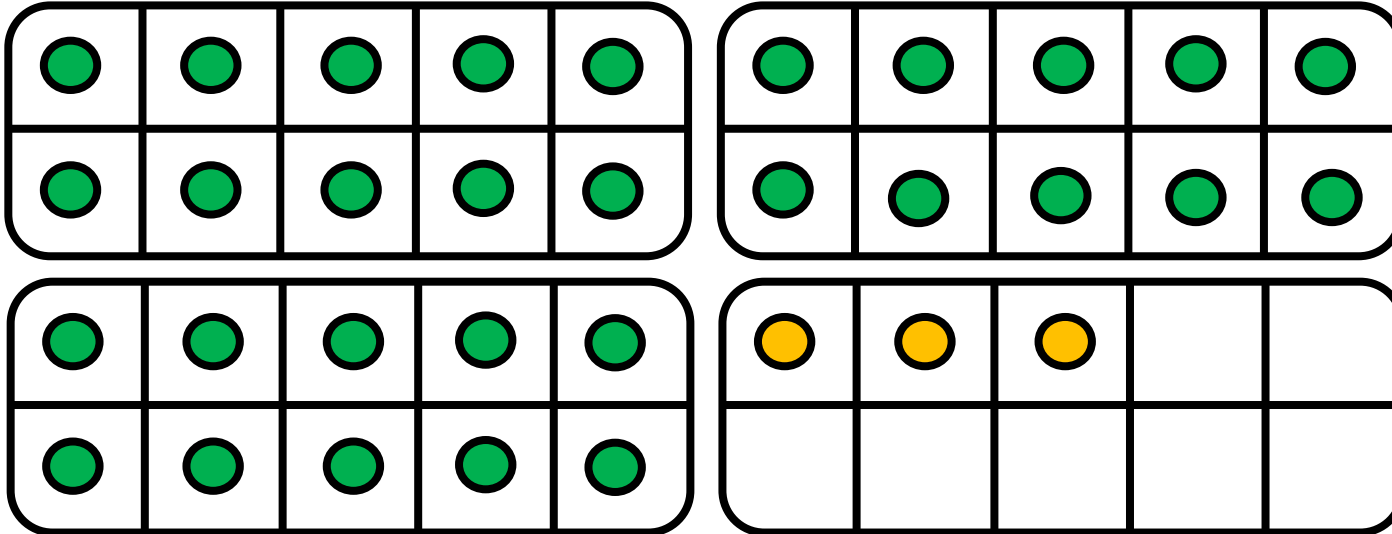
$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 20 & & & 13 & & & & \end{array}$$





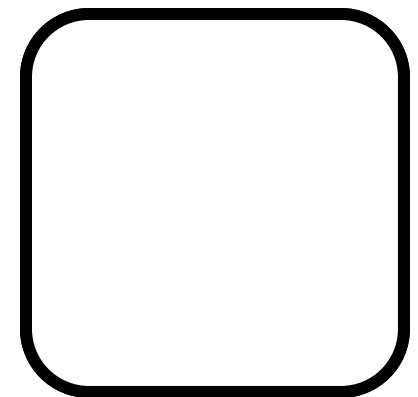
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?



$$16 + 17 = \underline{\hspace{2cm}}$$

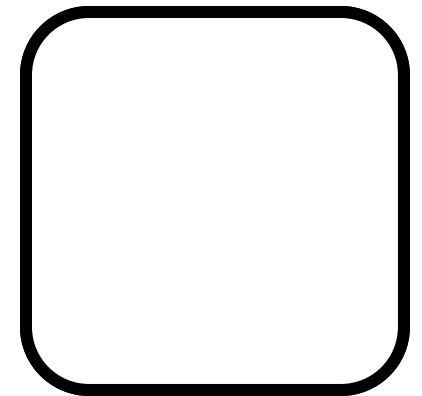
$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 20 & & & 13 & & & & \end{array}$$

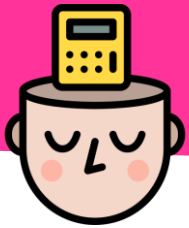




A 2x5 grid of ten boxes, each containing a green dot. The top row has five boxes with green dots, and the bottom row has five boxes with green dots.

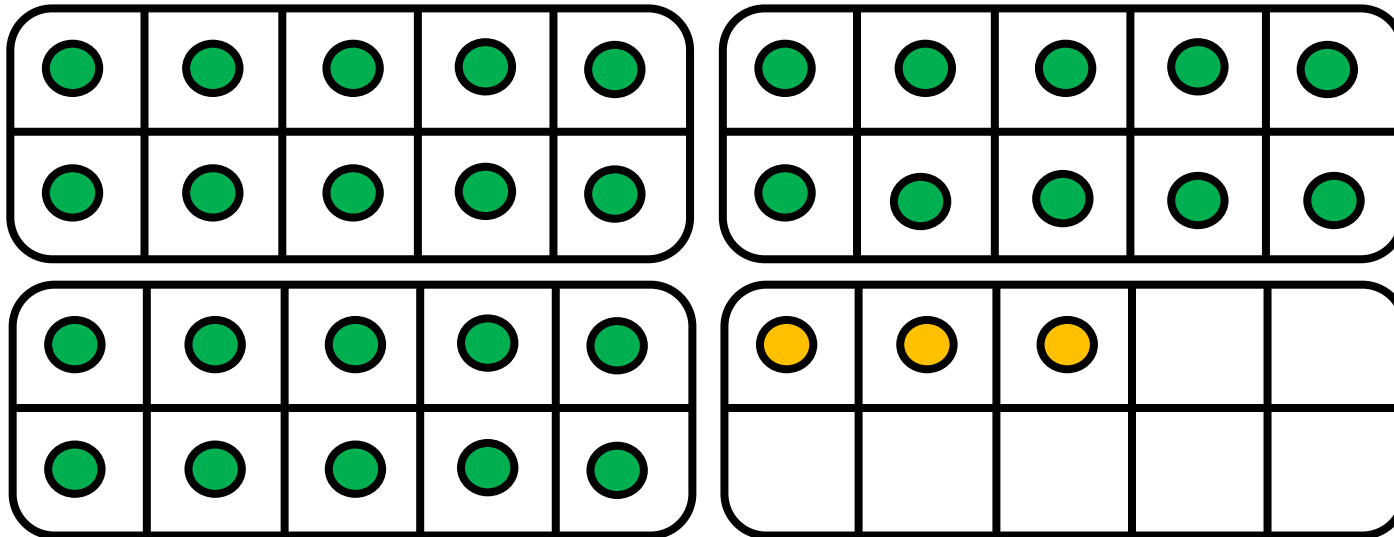
Diagram illustrating the addition of 10 + 6 + 10 + 6 + 1. The numbers are arranged in a row: 10 (green), +, 6 (yellow), +, 10 (green), +, 6 (yellow), +, 1 (orange). Lines connect the tens place of the first 10 to the 30 below, the tens place of the second 10 to the 30 below, the ones place of the first 6 to the 3 below, the ones place of the second 6 to the 3 below, and the 1 to the 3 below.





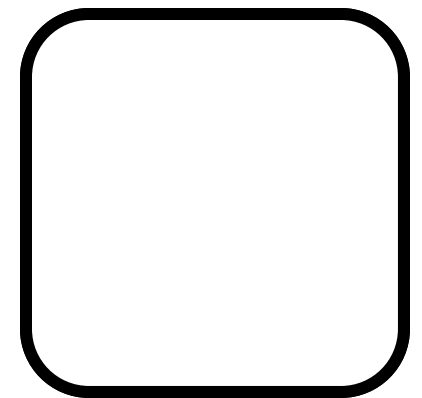
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 17$?



$$16 + 17 = \underline{33}$$

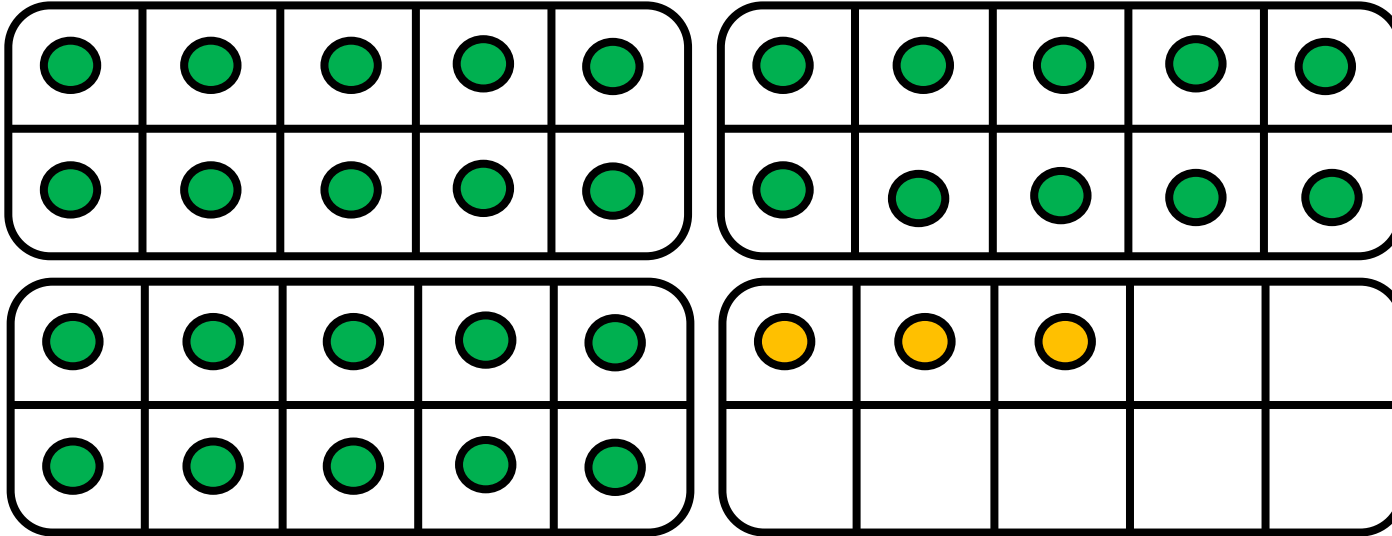
$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 30 & & & 3 & & & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

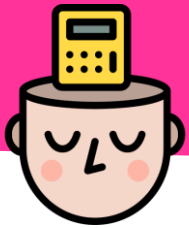
Combien font $16 + 17$?



$$16 + 17 = \underline{33}$$

$$\begin{array}{ccccccc} 10 & + & 6 & + & 10 & + & 6 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 30 & & & 3 & & & & \end{array}$$

33



CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?

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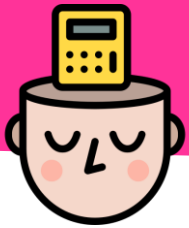
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?

●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●						

$$\begin{array}{r} 14 \\ \swarrow \searrow \\ 10 + 4 \end{array}$$

$$= \underline{\hspace{2cm}}$$



CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?

●	●	●	●	●	●	●	●	●	●
●	●	●	●	●					

14

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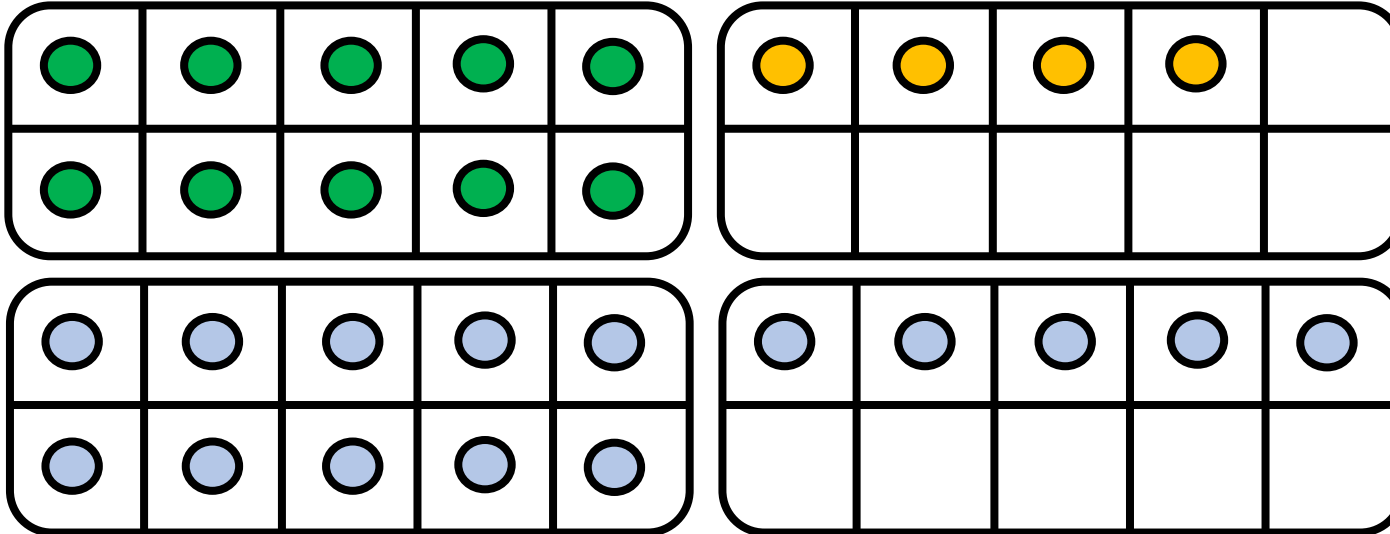
10 + 4

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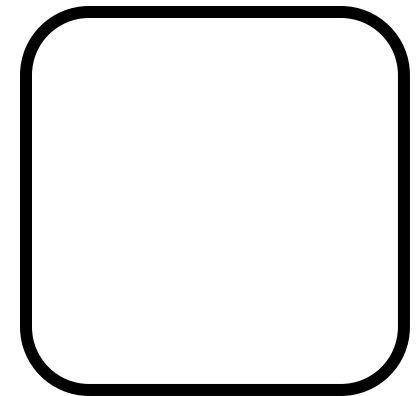
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?



$$14 + 15 = \underline{\hspace{2cm}}$$

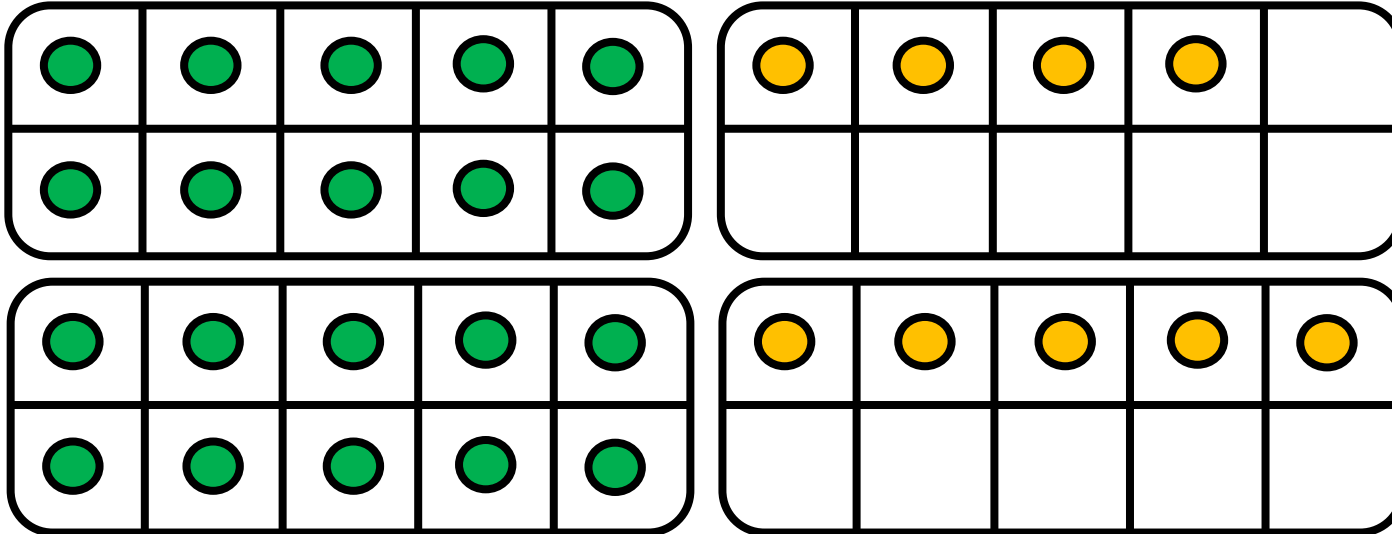
$$10 + 4$$





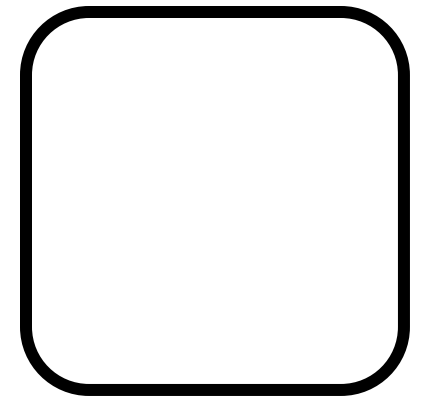
CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?



$$14 + 15 = \underline{\hspace{2cm}}$$

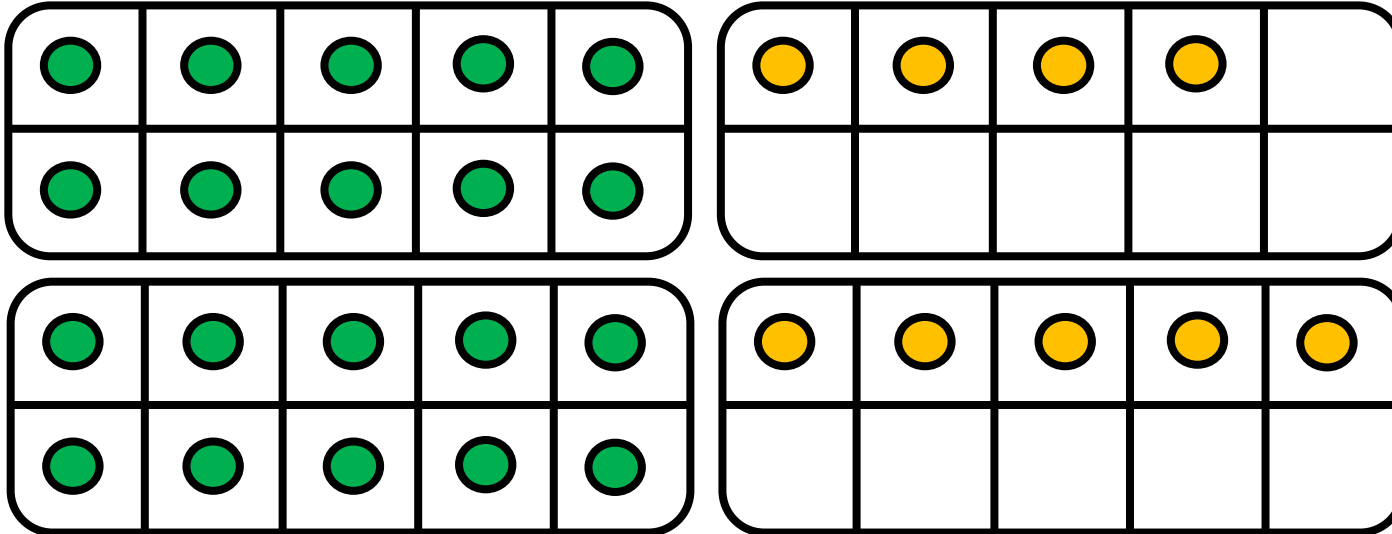
$$10 + 4 + 10 + 5$$





CM 22: Utiliser la technique des presque doubles <20

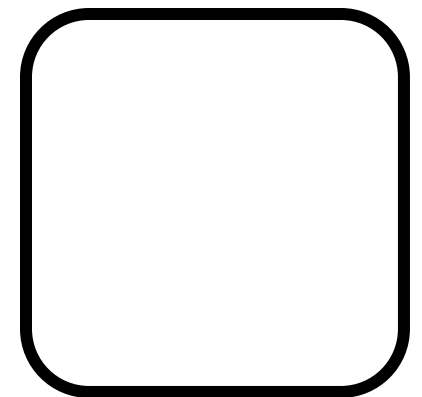
Combien font $14 + 15$?

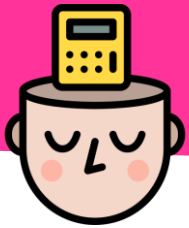


$$14 + 15 = \underline{\hspace{2cm}}$$

$$10 + 4 + 10 + 5$$

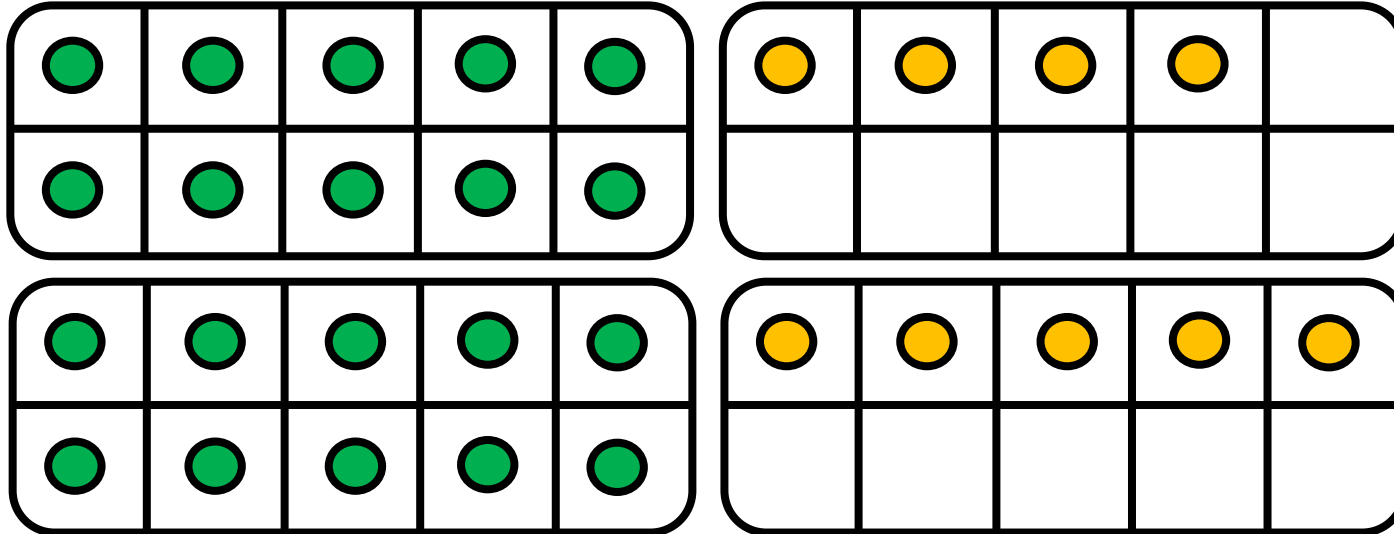
20





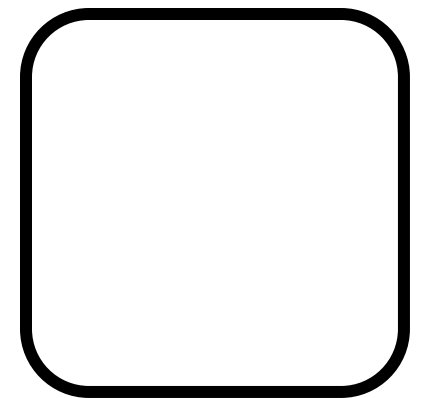
CM 22: Utiliser la technique des presque doubles <20

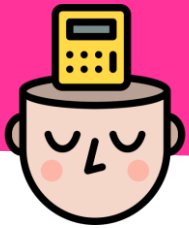
Combien font $14 + 15$?



$$14 + 15 = \underline{\hspace{2cm}}$$

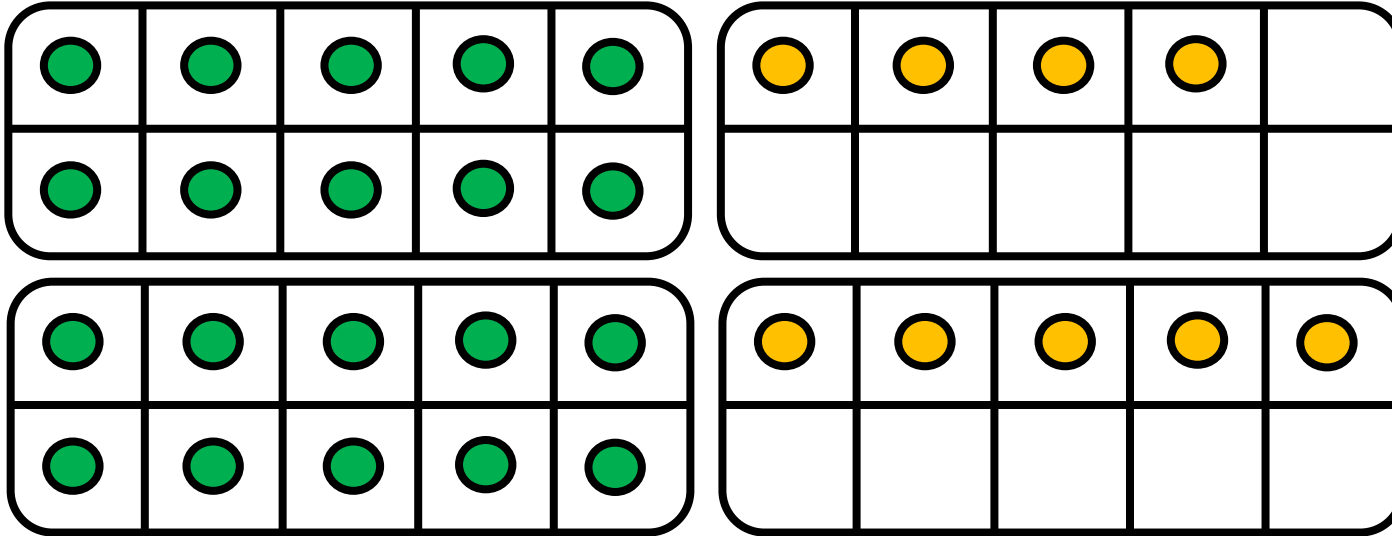
$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 5 \\ & & \swarrow & & \searrow & & \swarrow \\ & & 20 & + & 9 & & \end{array}$$





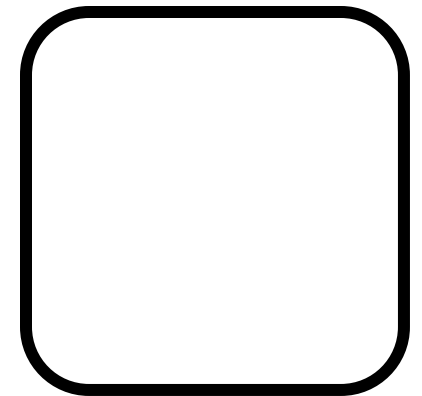
CM 22: Utiliser la technique des presque doubles <20

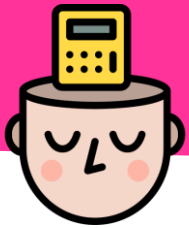
Combien font $14 + 15$?



$$14 + 15 = \underline{29}$$

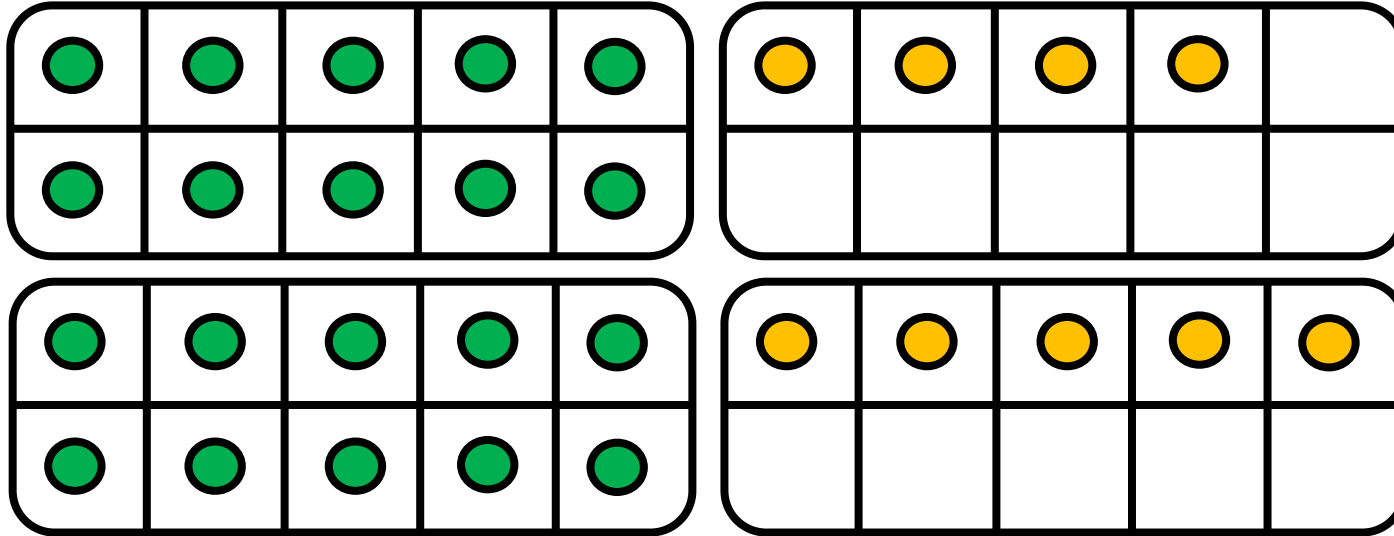
$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 5 \\ & & \swarrow & & \searrow & & \swarrow \\ & & 20 & + & 9 & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $14 + 15$?



$$14 + 15 = \underline{29}$$

$$\begin{array}{ccccccc} 10 & + & 4 & + & 10 & + & 5 \\ & & \diagdown & & \diagup & & \\ & & 20 & + & 9 & & \end{array}$$

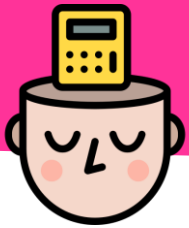
29



CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?

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CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?

●	●	●	●	●	●	●			
●	●	●	●	●					

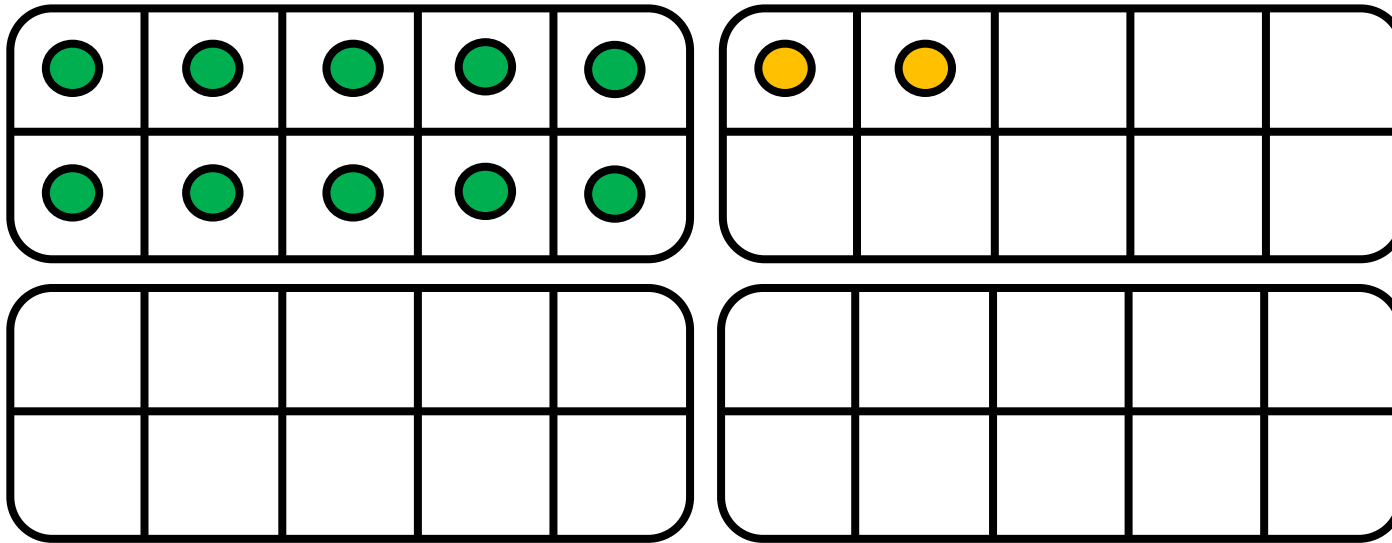
$$\begin{array}{r} 12 \\ \swarrow \searrow \\ 10 + 2 \end{array}$$

$$= \underline{\hspace{2cm}}$$

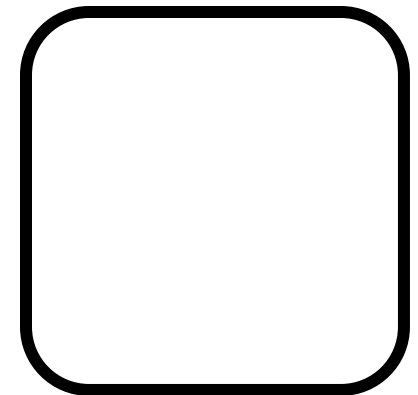


CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



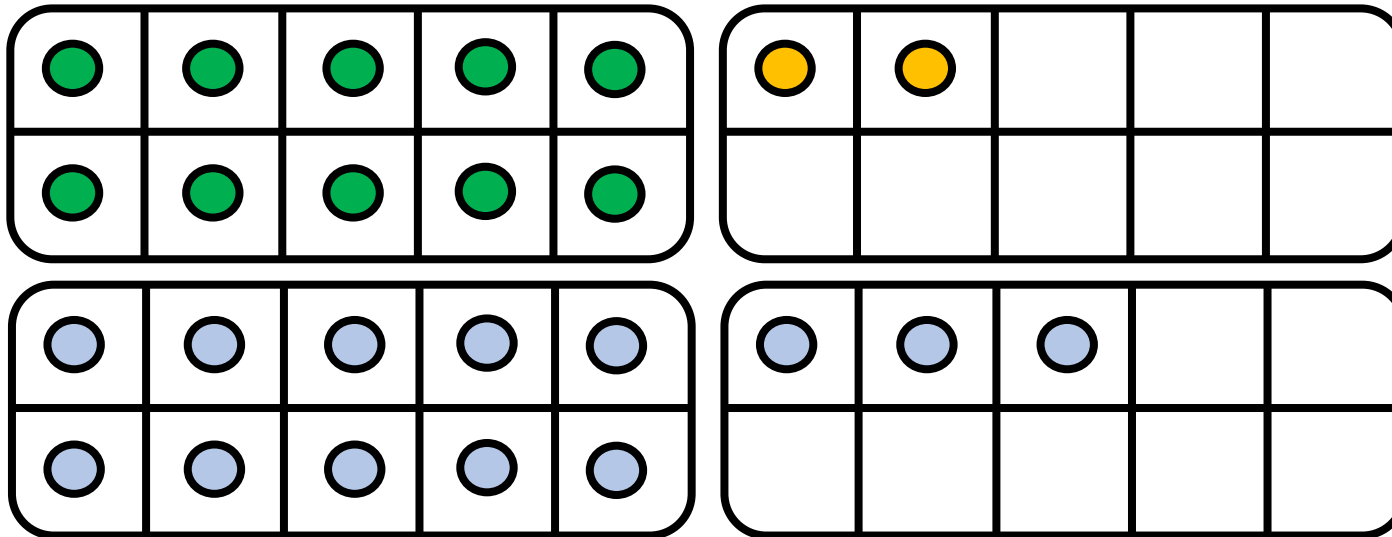
$$\begin{array}{c} 12 \\ 10 + 2 \end{array} = \underline{\hspace{2cm}}$$





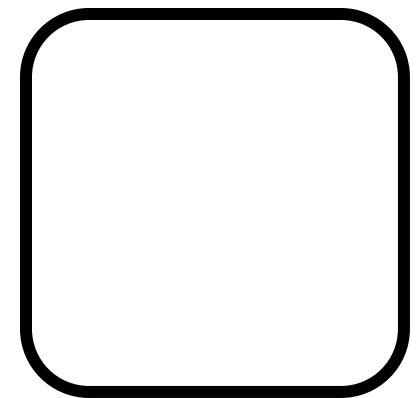
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{\hspace{2cm}}$$

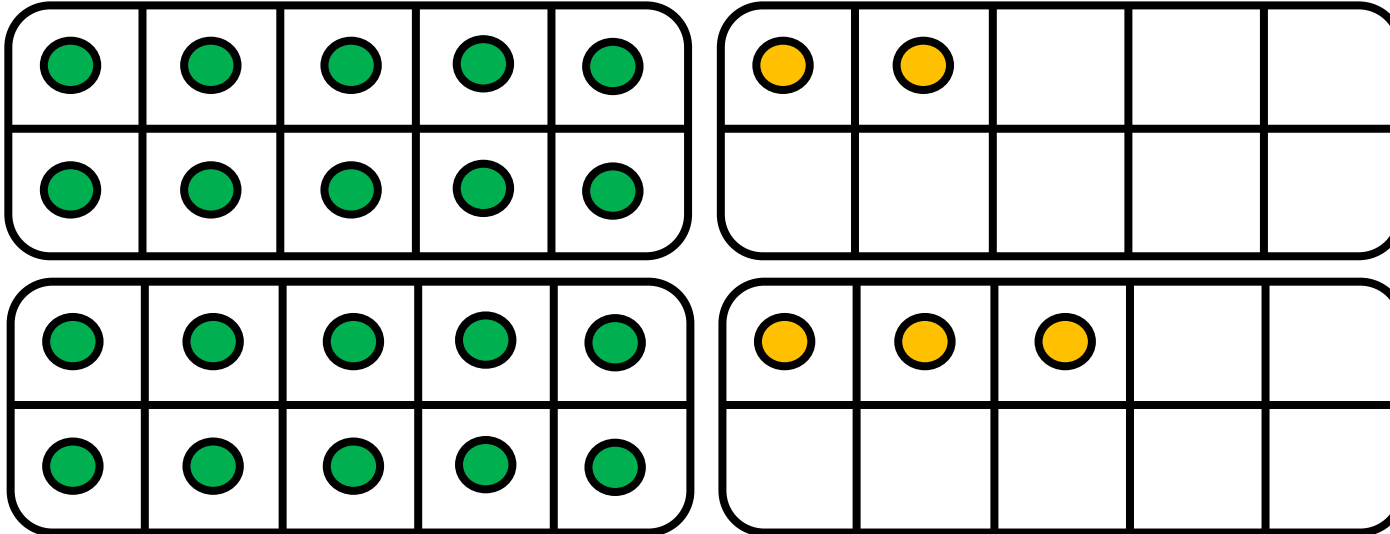
$$10 + 2$$





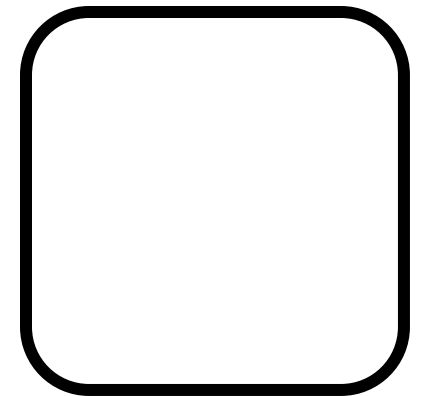
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{\hspace{2cm}}$$

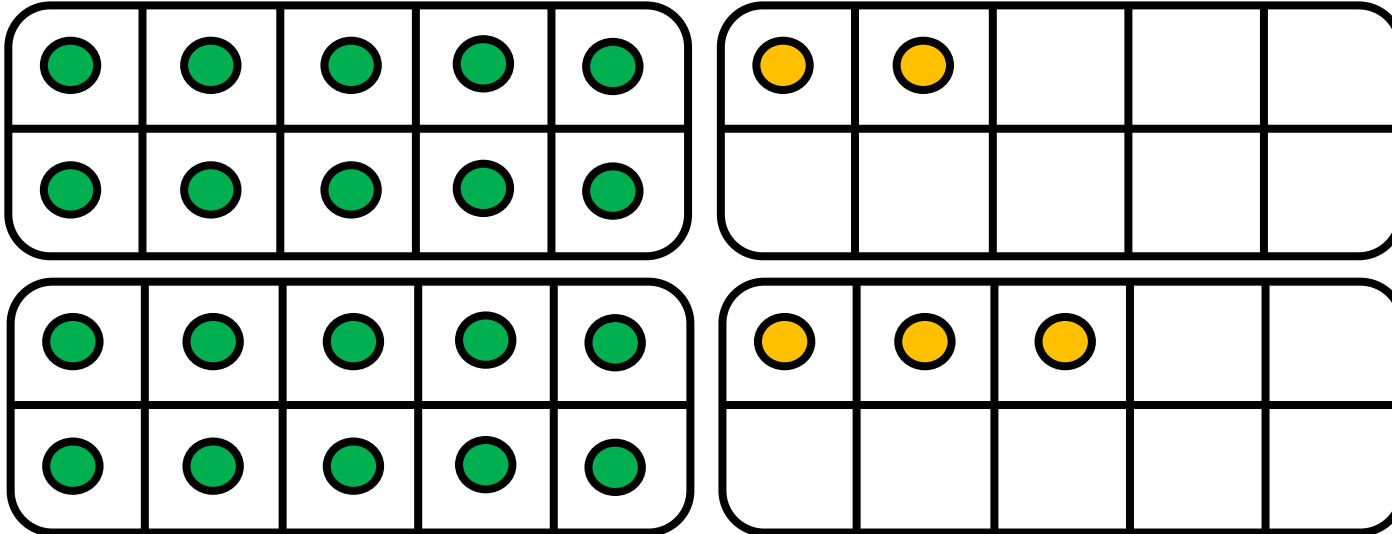
$$10 + 2 + 10 + 3$$





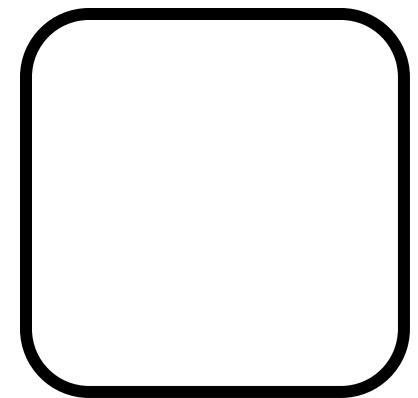
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{\hspace{2cm}}$$

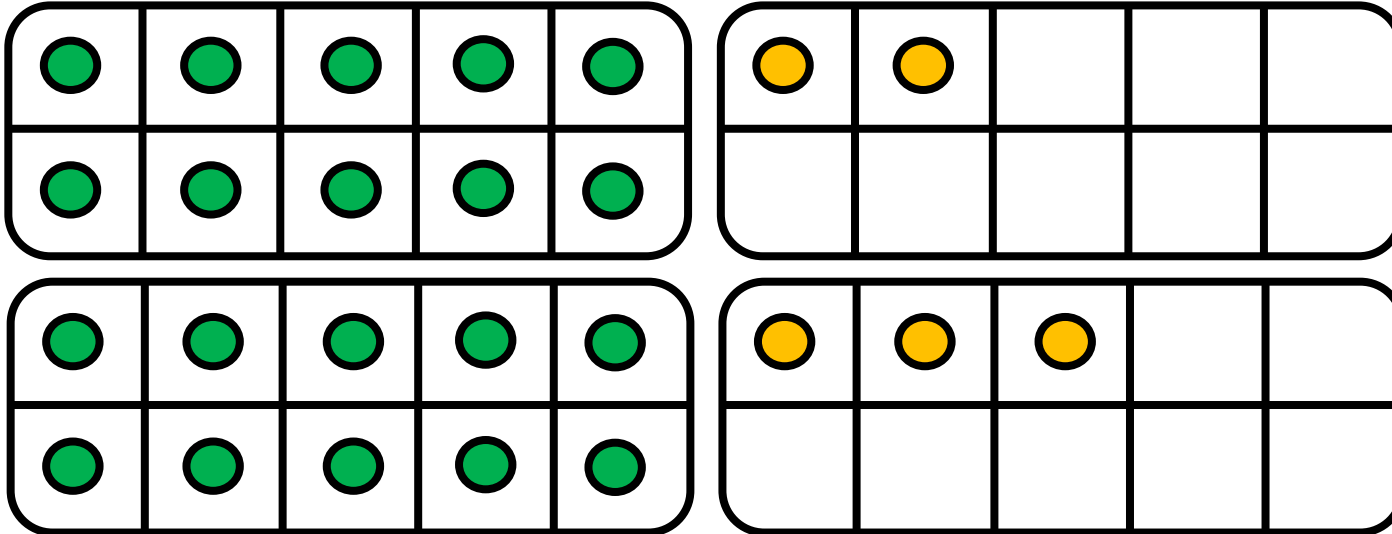
$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 3 \\ & & & & \swarrow & & \swarrow \\ & & & & 20 & & \end{array}$$





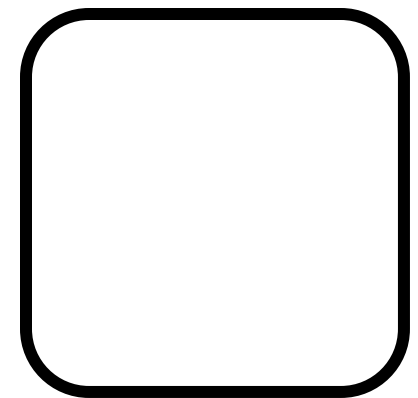
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{\hspace{2cm}}$$

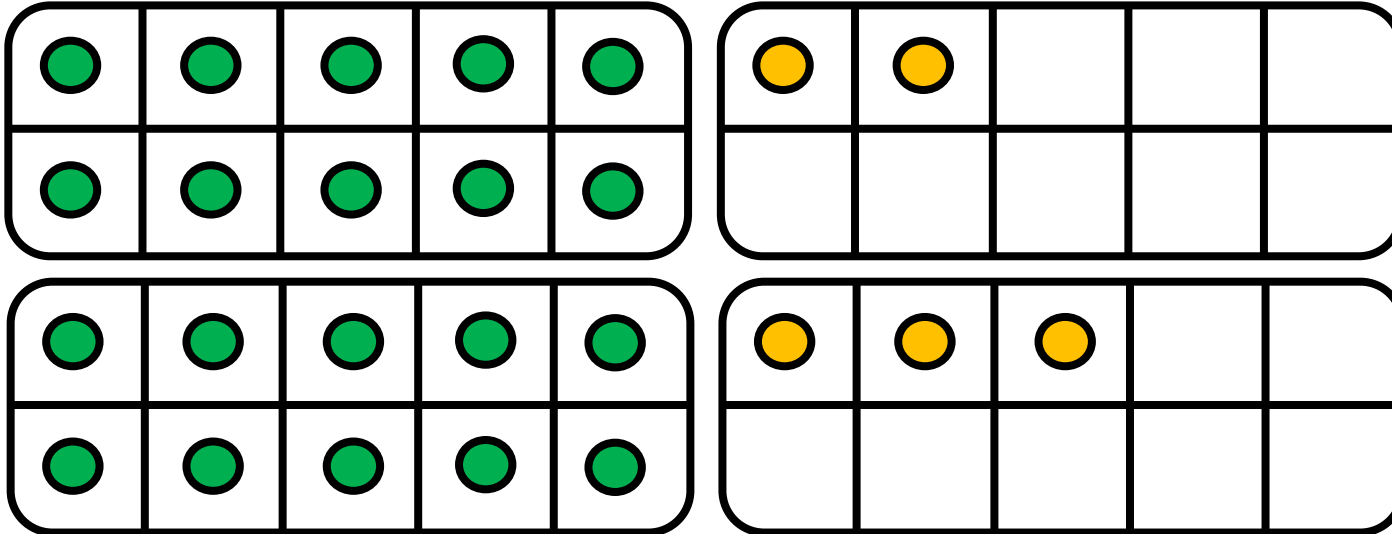
$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 3 \\ & & \diagdown & & \diagup & & \diagdown \\ & & 20 & + & 5 & & \end{array}$$





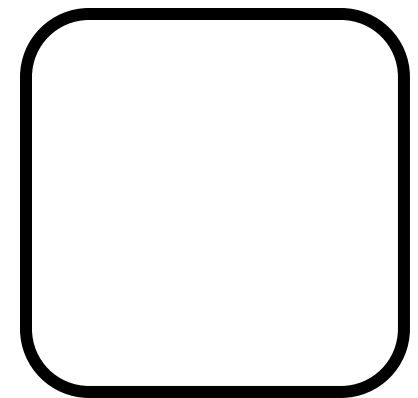
CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{25}$$

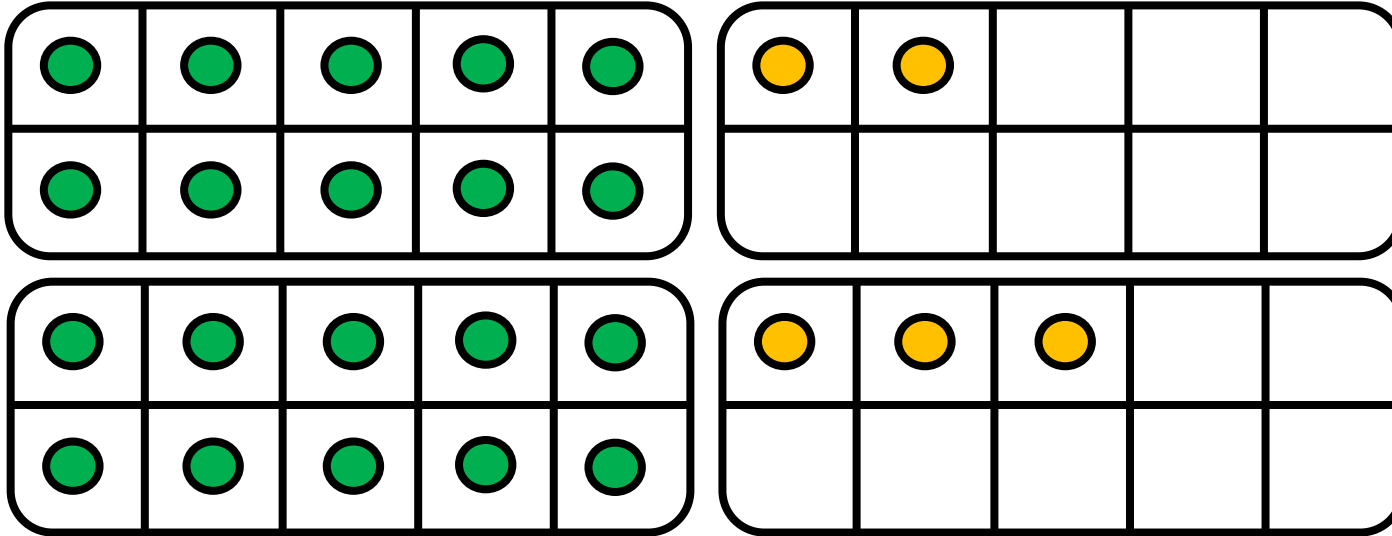
$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 3 \\ & & \swarrow & & \searrow & & \swarrow \\ & & 20 & + & 5 & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $12 + 13$?



$$12 + 13 = \underline{25}$$

$$\begin{array}{ccccccc} 10 & + & 2 & + & 10 & + & 3 \\ & & \swarrow & & \searrow & & \swarrow \\ & & 20 & + & 5 & & \end{array}$$

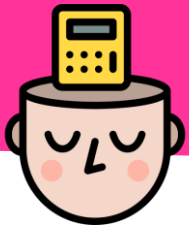
25



CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?

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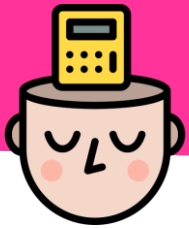
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?

●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●					

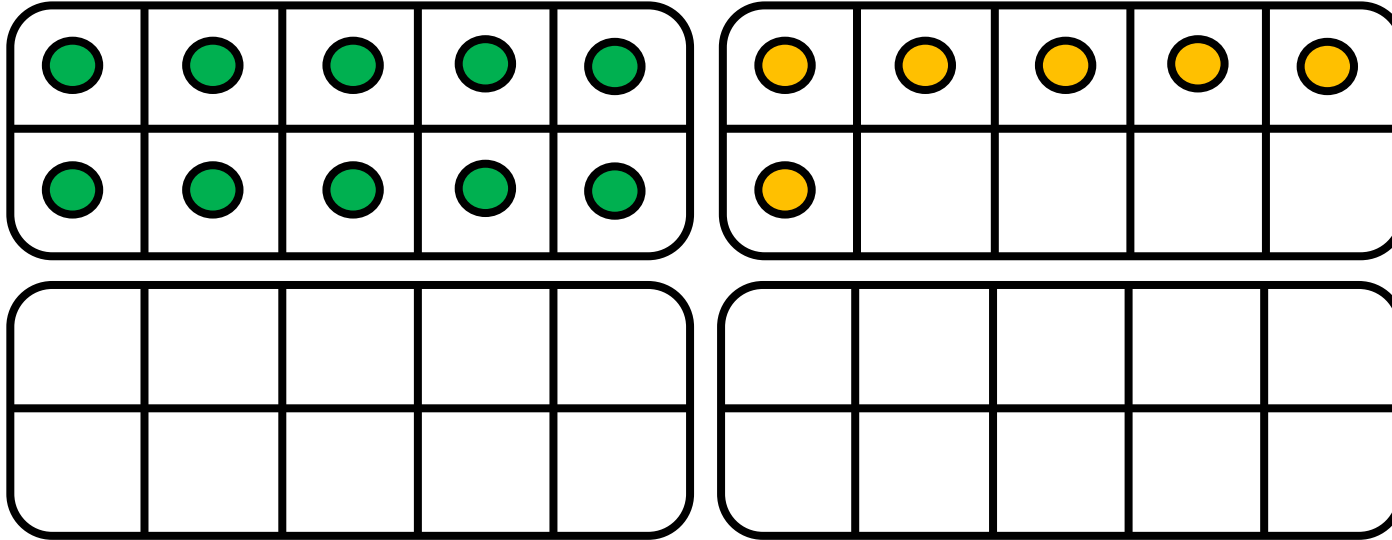
$$\begin{array}{r} 16 \\ \swarrow \searrow \\ 10 + 6 \end{array}$$

$$= \underline{\hspace{2cm}}$$



CM 22: Utiliser la technique des presque doubles <20

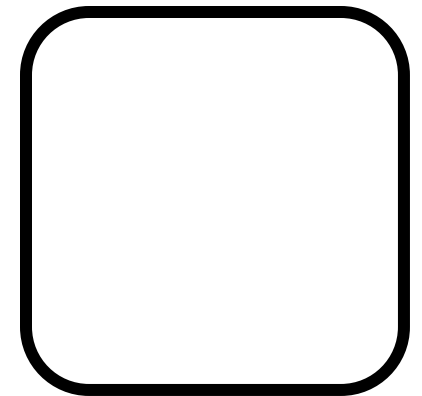
Combien font $16 + 15$?



16

=

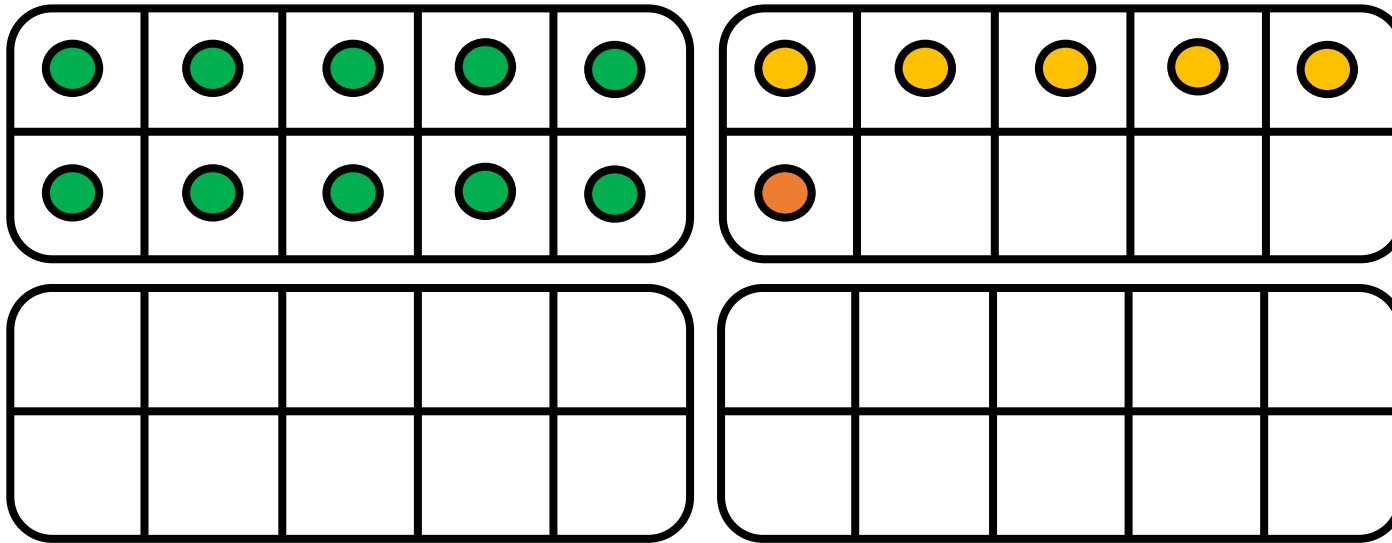
10 + 6





CM 22: Utiliser la technique des presque doubles <20

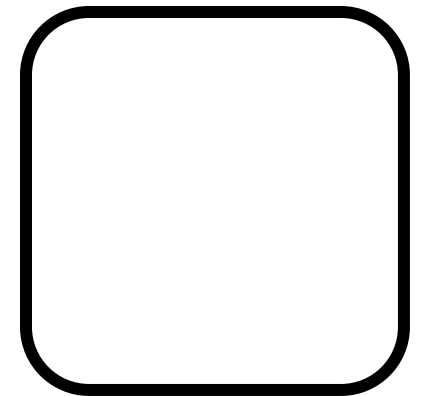
Combien font $16 + 15$?

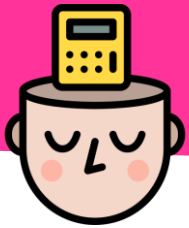


16

10 + 5 + 1

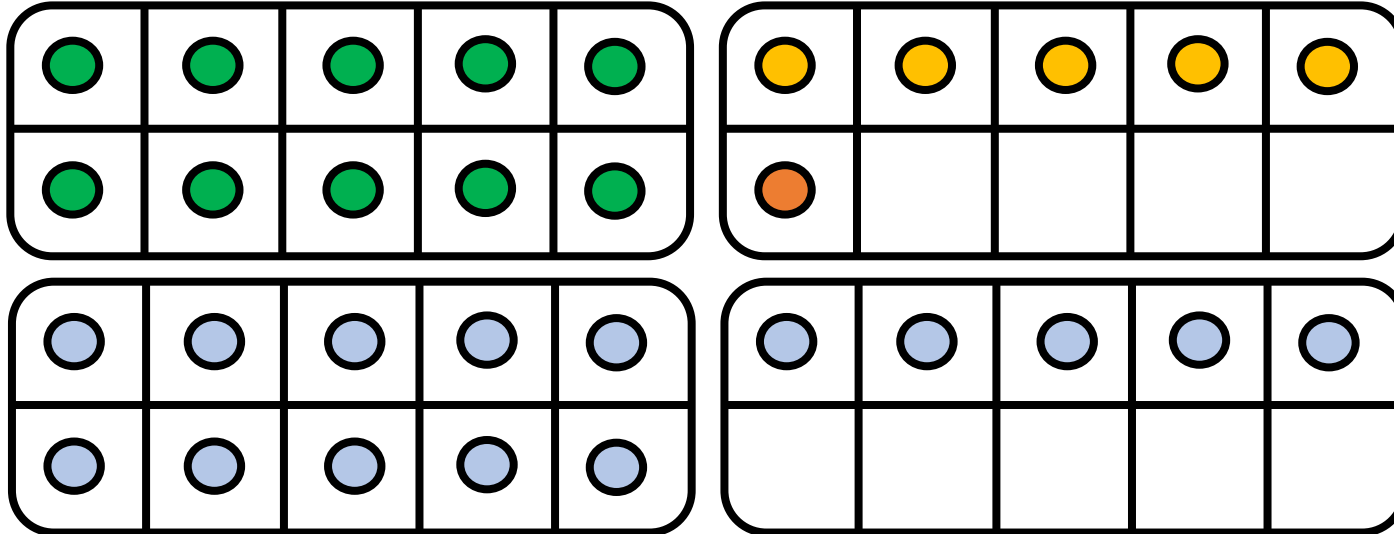
=





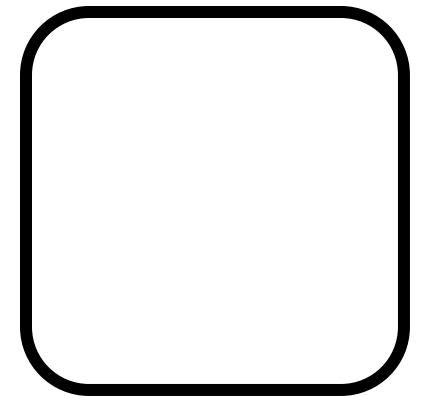
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

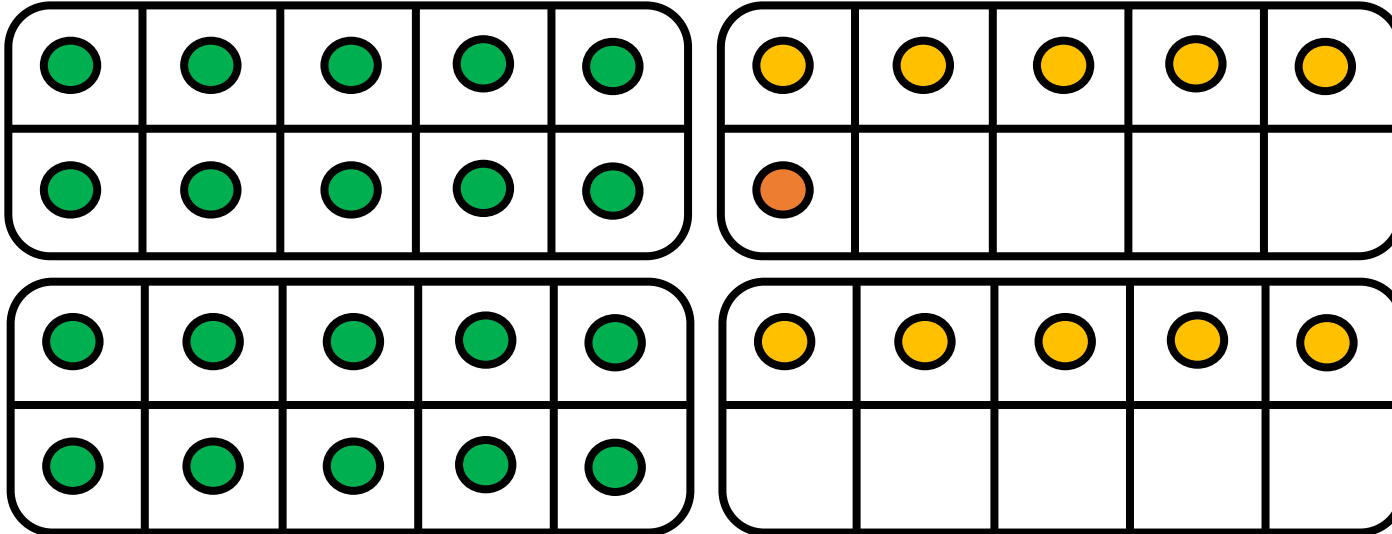
$$10 + 5 + 1$$





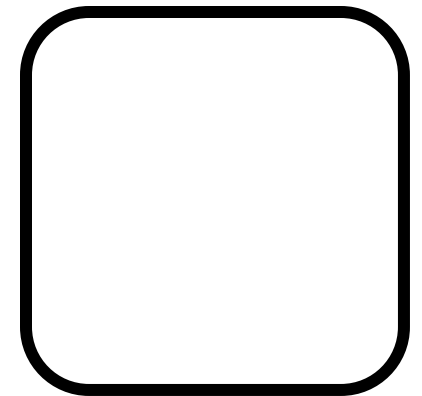
CM 22: Utiliser la technique des presque doubles <20

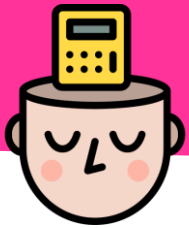
Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

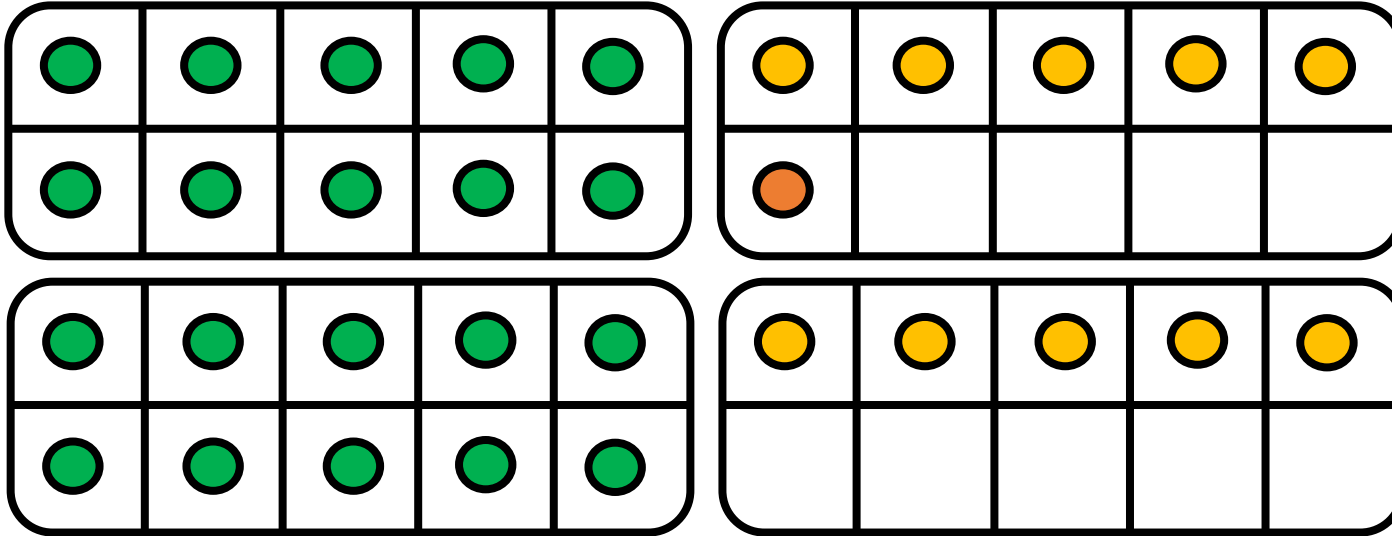
$$10 + 5 + 1 + 10 + 5$$





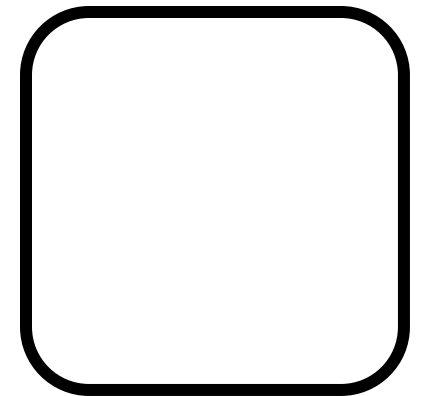
CM 22: Utiliser la technique des presque doubles <20

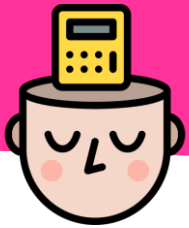
Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

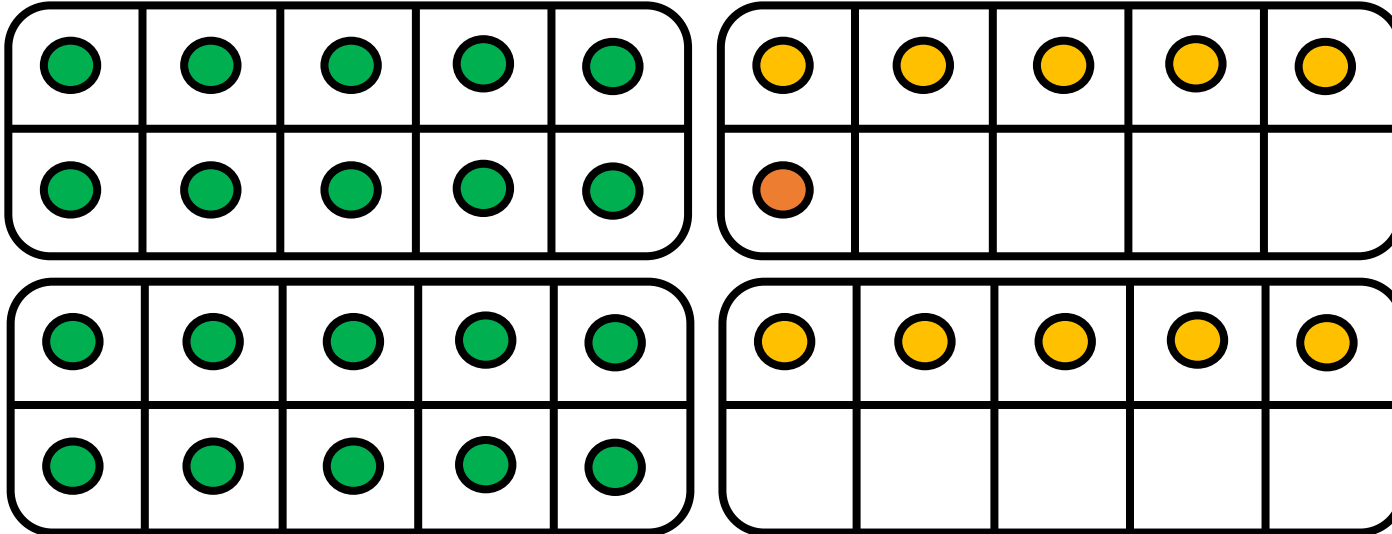
$$10 + 5 + 1 + 10 + 5$$





CM 22: Utiliser la technique des presque doubles <20

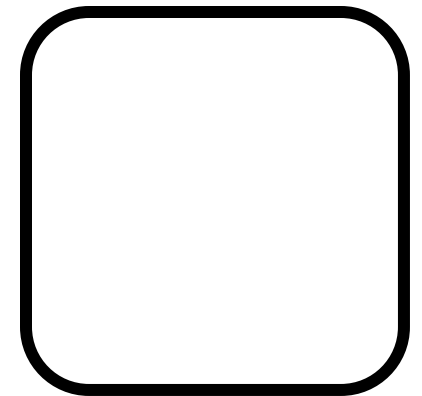
Combien font $16 + 15$?

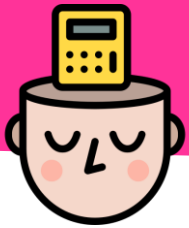


$$16 + 15 = \underline{\hspace{2cm}}$$

$$10 + 5 + 1 + 10 + 5$$

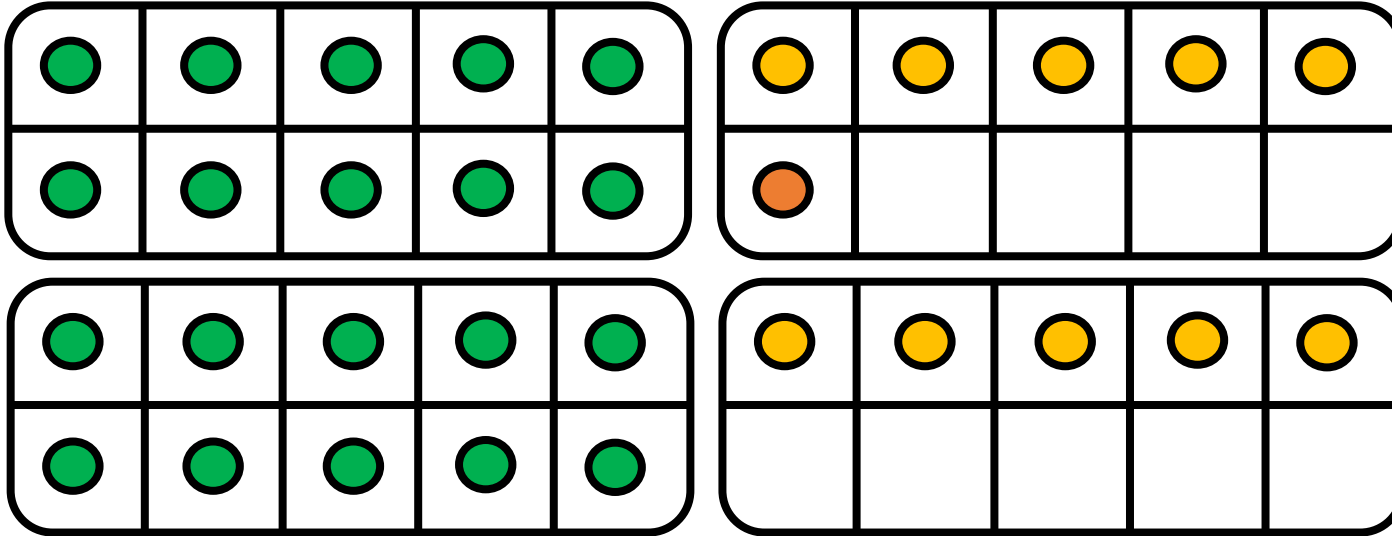
Diagram showing the decomposition of the sum: 10 (green) + 5 (yellow) + 1 (orange) + 10 (green) + 5 (yellow). Lines connect the 10 and 5 from the first term to a 10 below, and the 1 and 5 from the second term to the same 10 below, illustrating the strategy of making a ten.





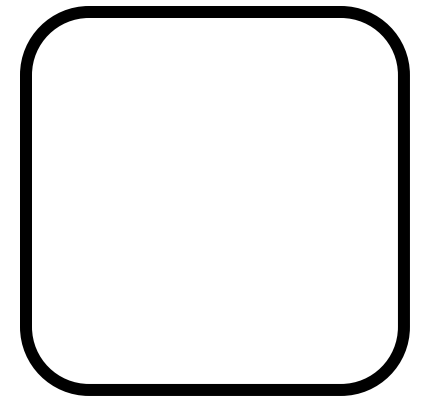
CM 22: Utiliser la technique des presque doubles <20

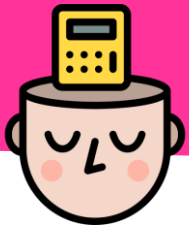
Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

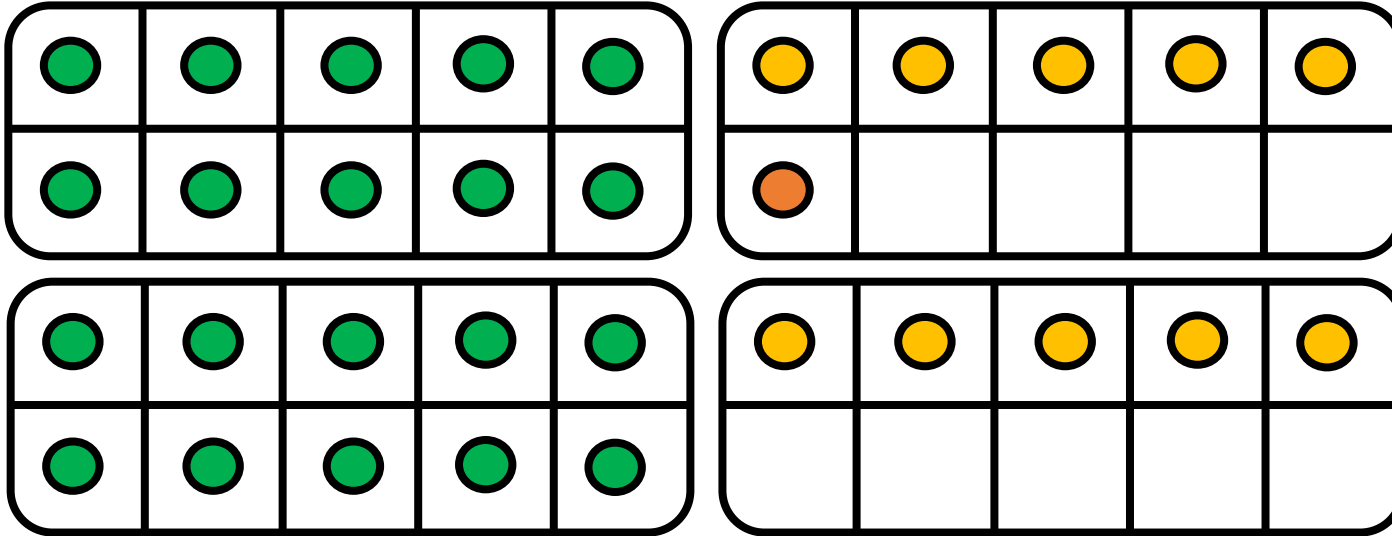
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & & \swarrow & & \searrow & & \swarrow & & \searrow \\ & & & & & & 10 & & 1 \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?

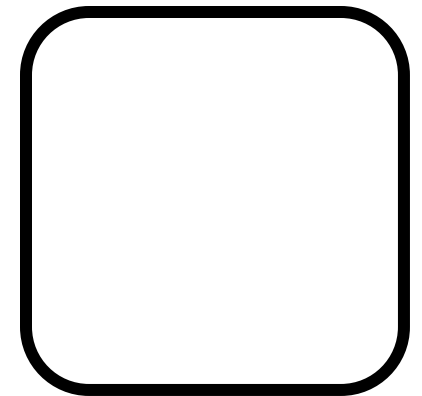


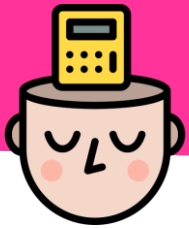
$$16 + 15 = \underline{\hspace{2cm}}$$

$$10 + 5 + 1 + 10 + 5$$

Diagram showing the decomposition of the second addend (15) into 10 and 5, and the first addend (16) into 10, 5, and 1. Lines connect the 10 and 5 of the second addend to the 10 and 5 of the first addend, and a line connects the 1 of the second addend to the 1 of the first addend, illustrating the 'almost double' technique where 15 is added to 10 to get 25, then 1 is added to get 26.

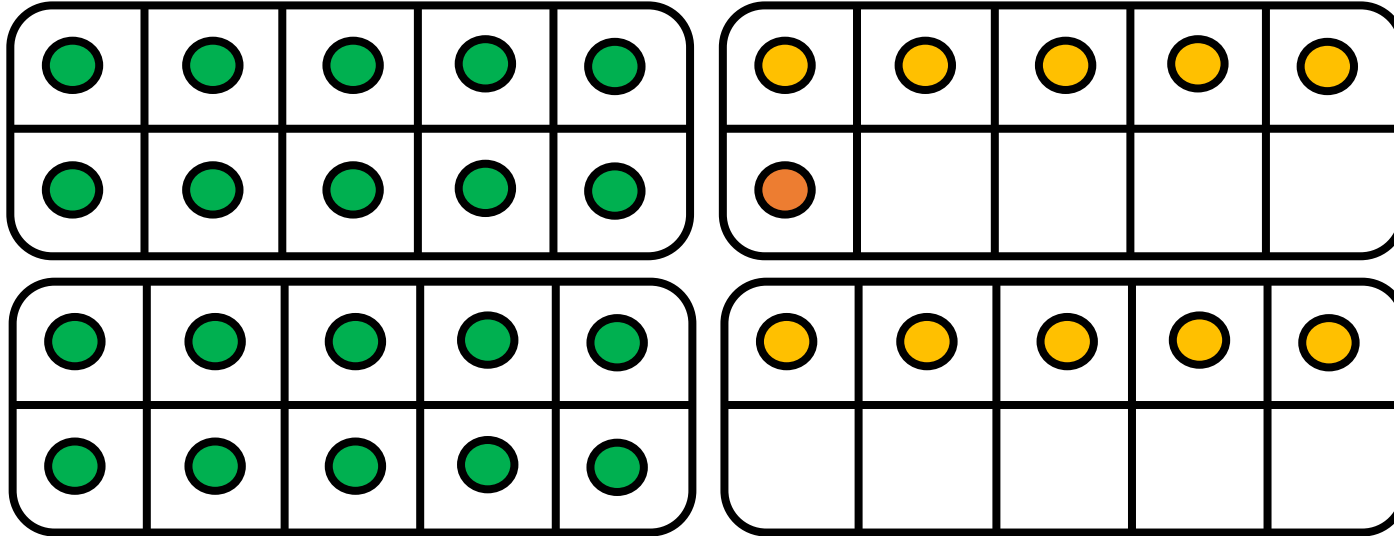
$$11$$





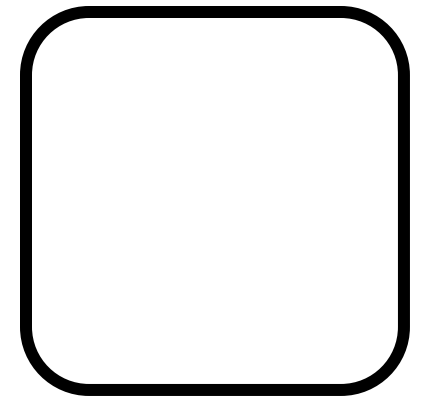
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

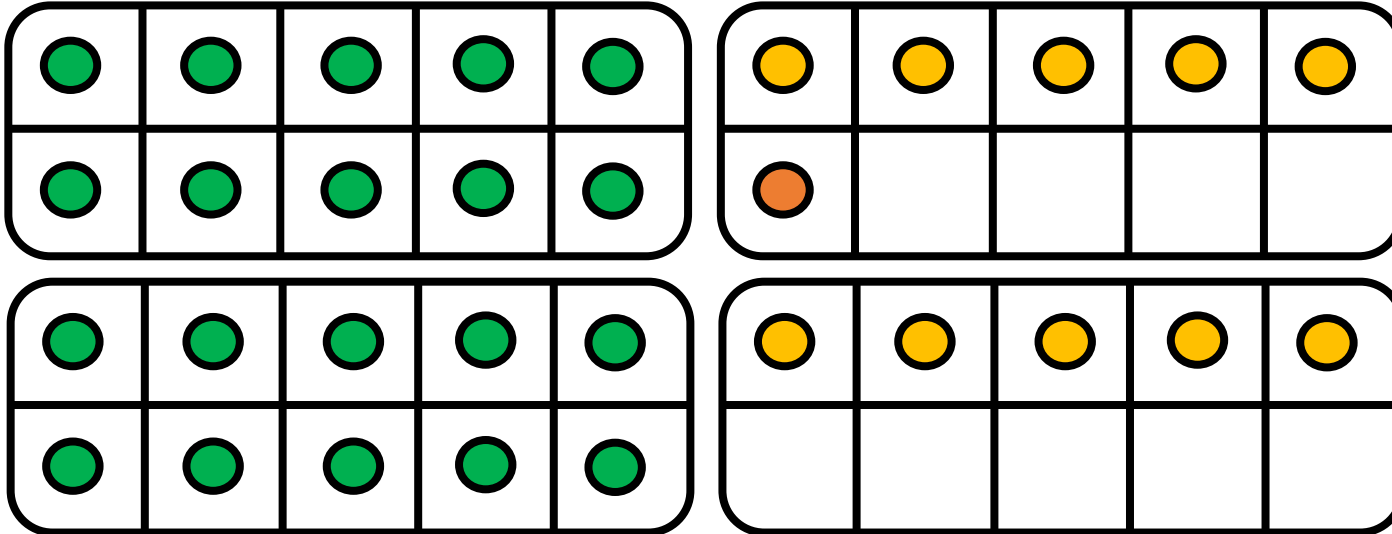
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & & \swarrow & & \searrow & & \swarrow & & \searrow \\ & & & & 11 & & & & \end{array}$$





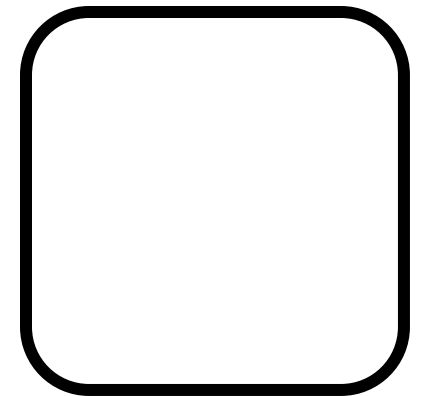
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

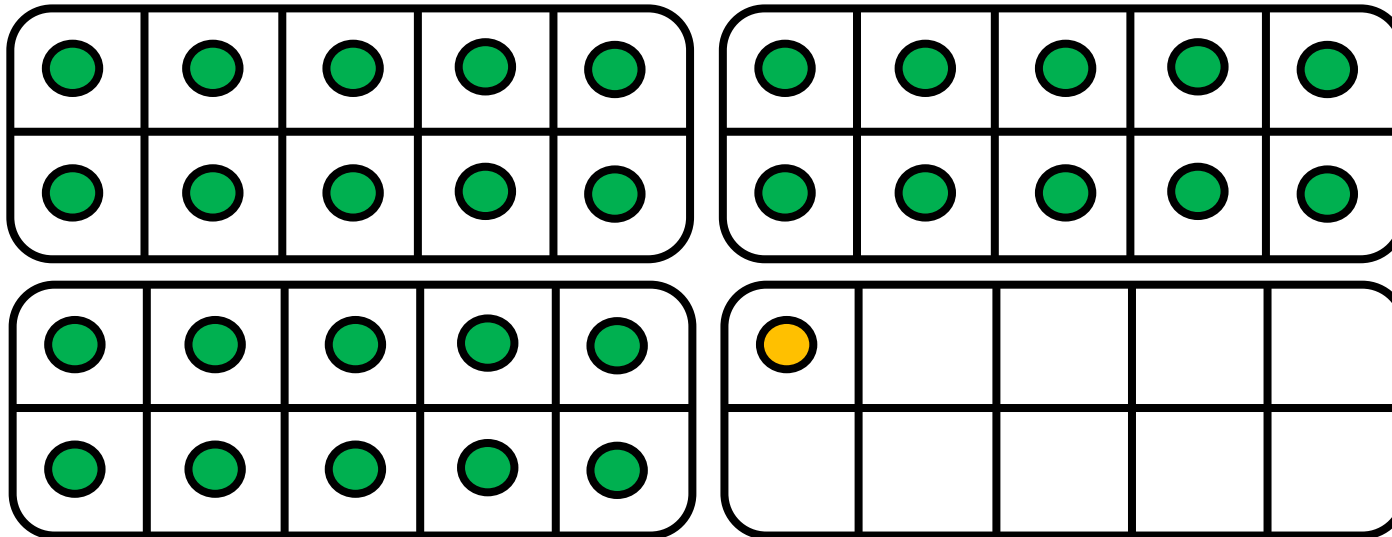
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 20 & & & 11 & & & & \end{array}$$





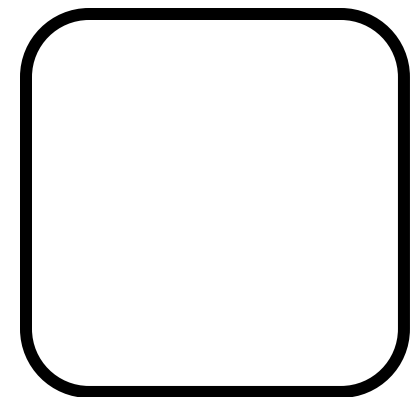
CM 22: Utiliser la technique des presque doubles <20

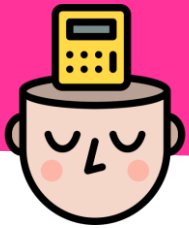
Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

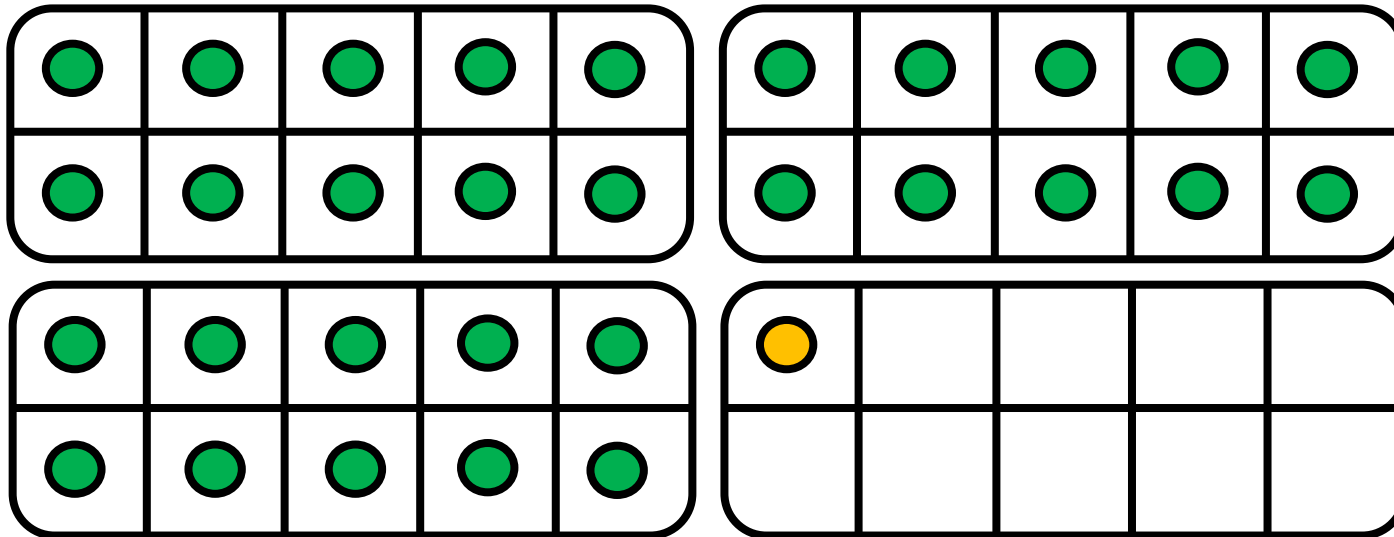
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 20 & & & 11 & & & & \end{array}$$





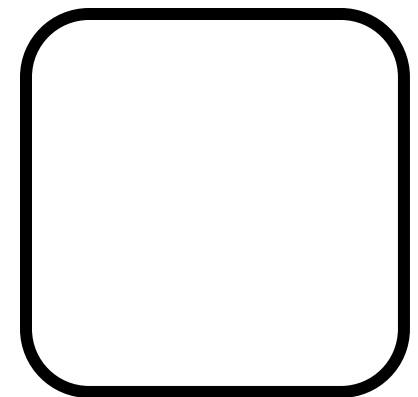
CM 22: Utiliser la technique des presque doubles <20

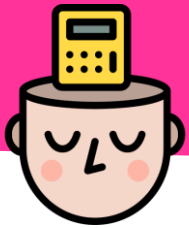
Combien font $16 + 15$?



$$16 + 15 = \underline{\hspace{2cm}}$$

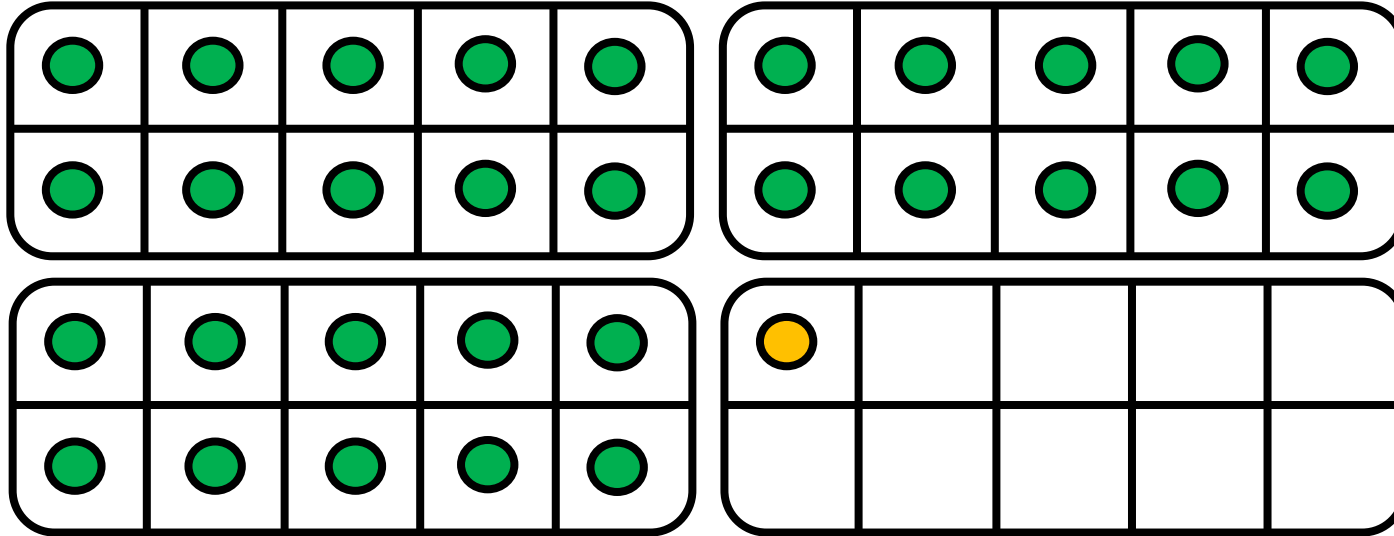
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & & 30 & & & 1 & & & \end{array}$$





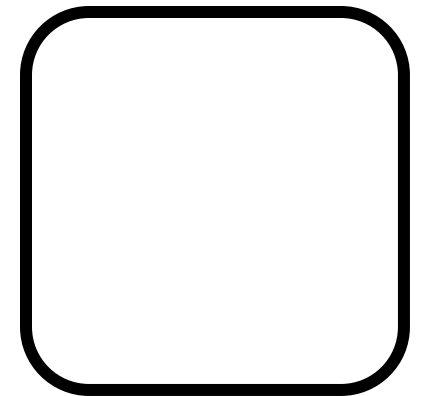
CM 22: Utiliser la technique des presque doubles <20

Combien font $16 + 15$?



$$16 + 15 = \underline{31}$$

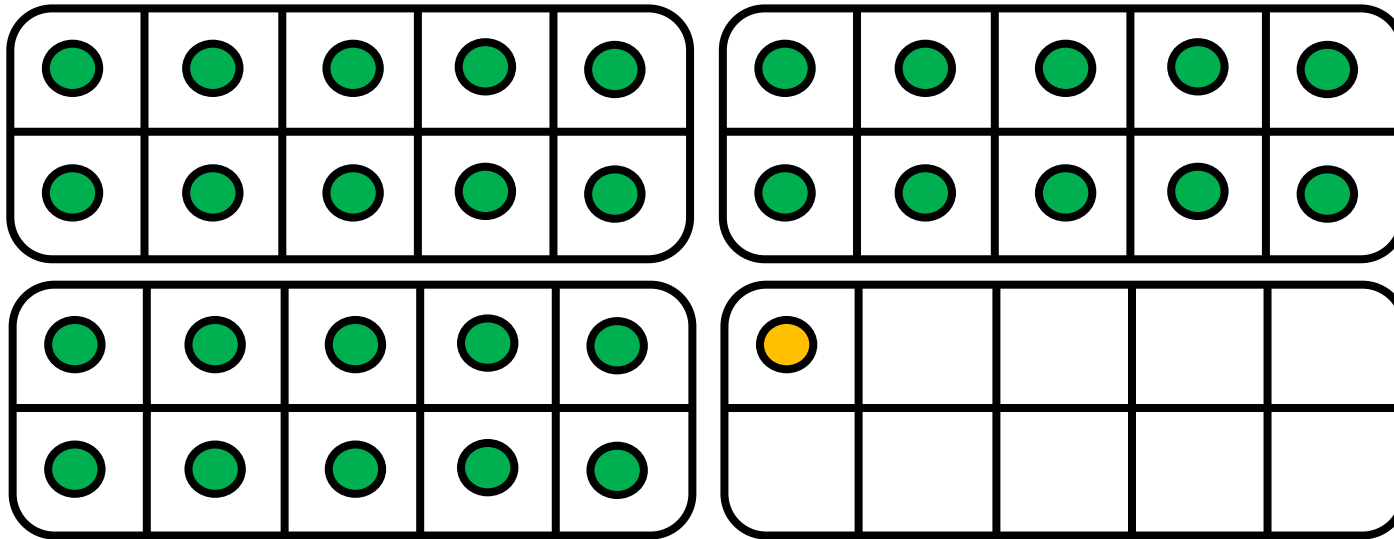
$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 30 & & & 1 & & & & \end{array}$$





CM 22: Utiliser la technique des presque doubles < 20

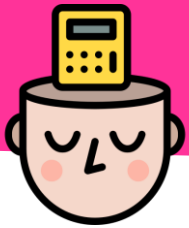
Combien font $16 + 15$?



$$16 + 15 = \underline{31}$$

$$\begin{array}{ccccccc} 10 & + & 5 & + & 1 & + & 10 & + & 5 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 30 & & & 1 & & & & \end{array}$$

31



CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 19$?

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CM 22: Utiliser la technique des presque doubles <20

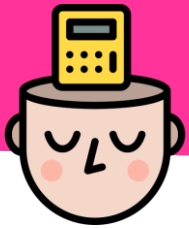
Combien font $18 + 19$?

●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●				

$$\begin{array}{r} 18 \\ \swarrow \searrow \\ 10 + 8 \end{array}$$

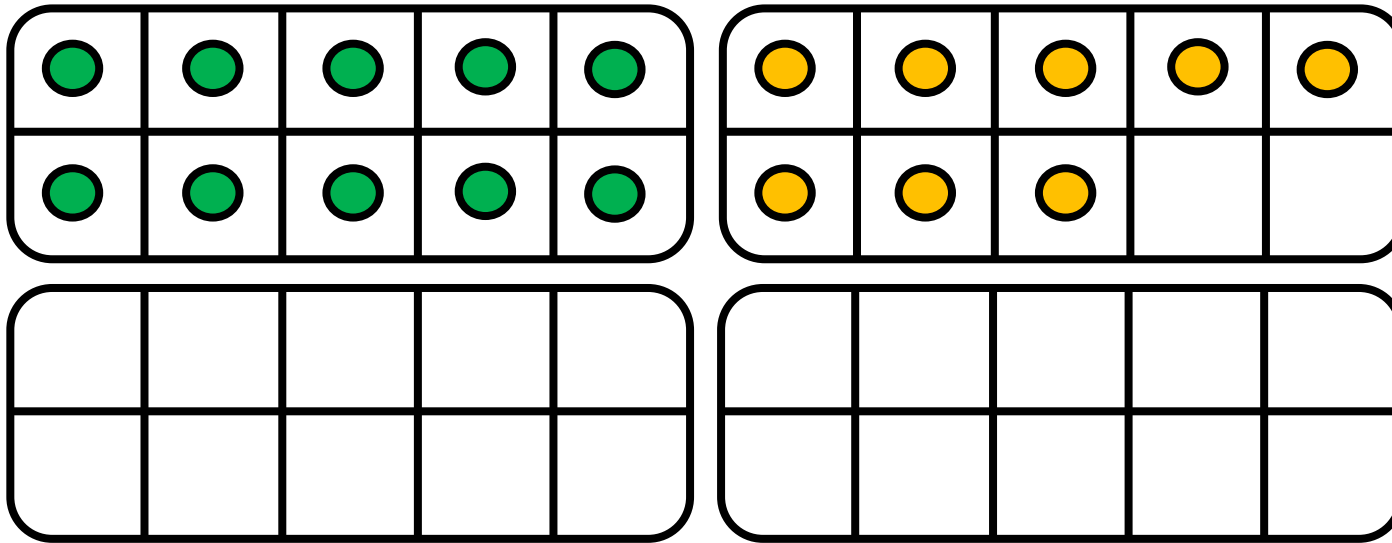
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CM 22: Utiliser la technique des presque doubles <20

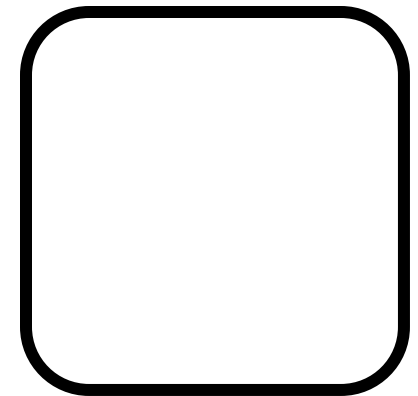
Combien font $18 + 19$?



18

=

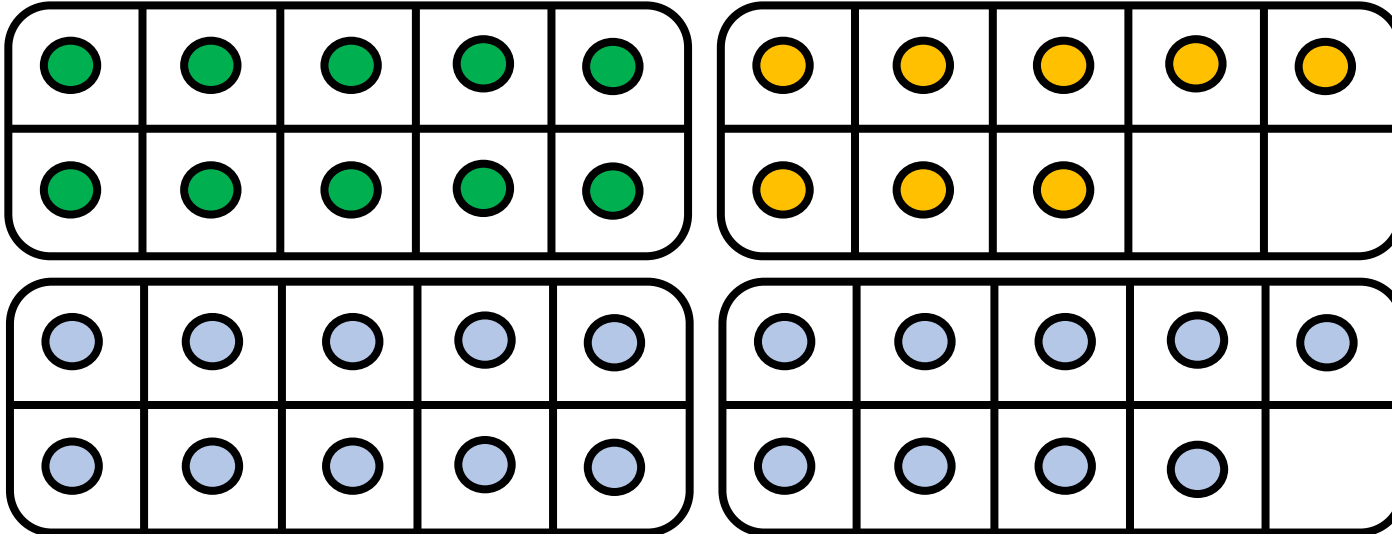
10 + 8





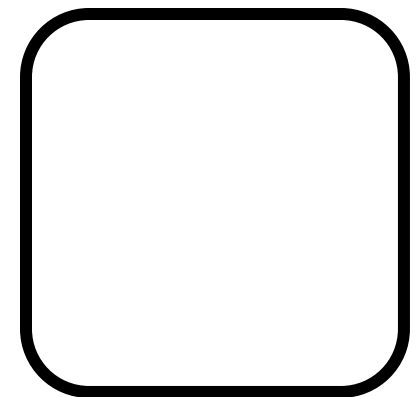
CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

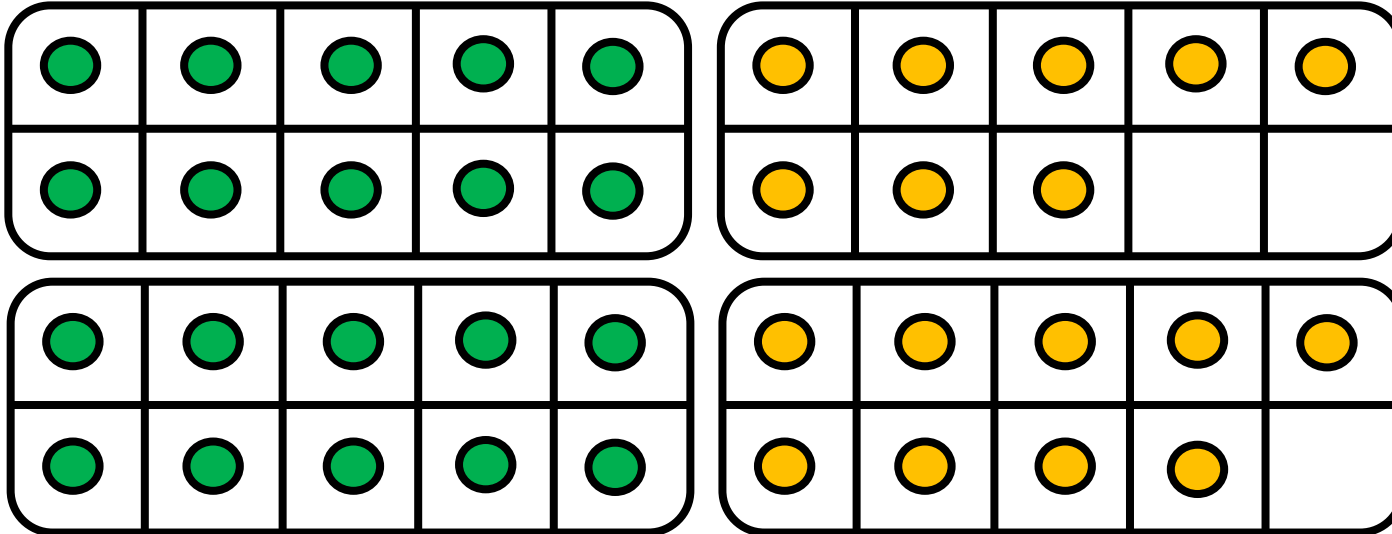
$$10 + 8$$





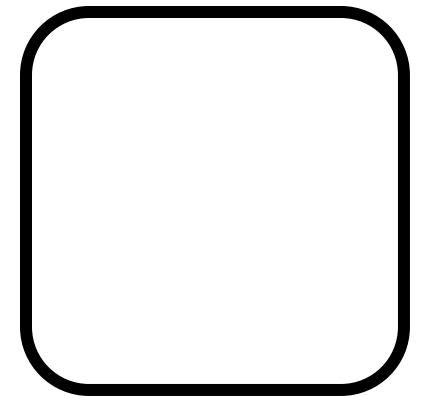
CM 22: Utiliser la technique des presque doubles <20

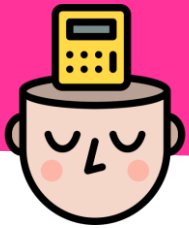
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

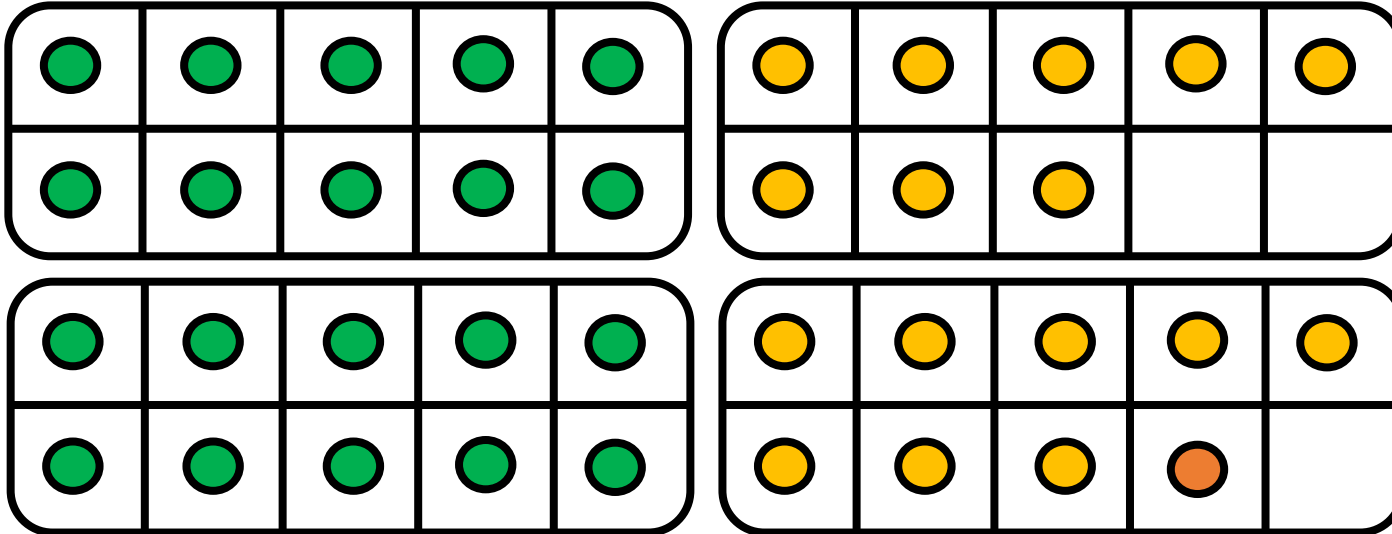
$$10 + 8 + 10 + 9$$





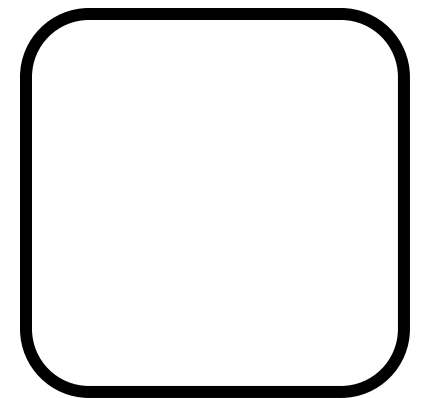
CM 22: Utiliser la technique des presque doubles <20

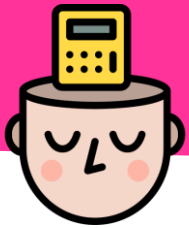
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

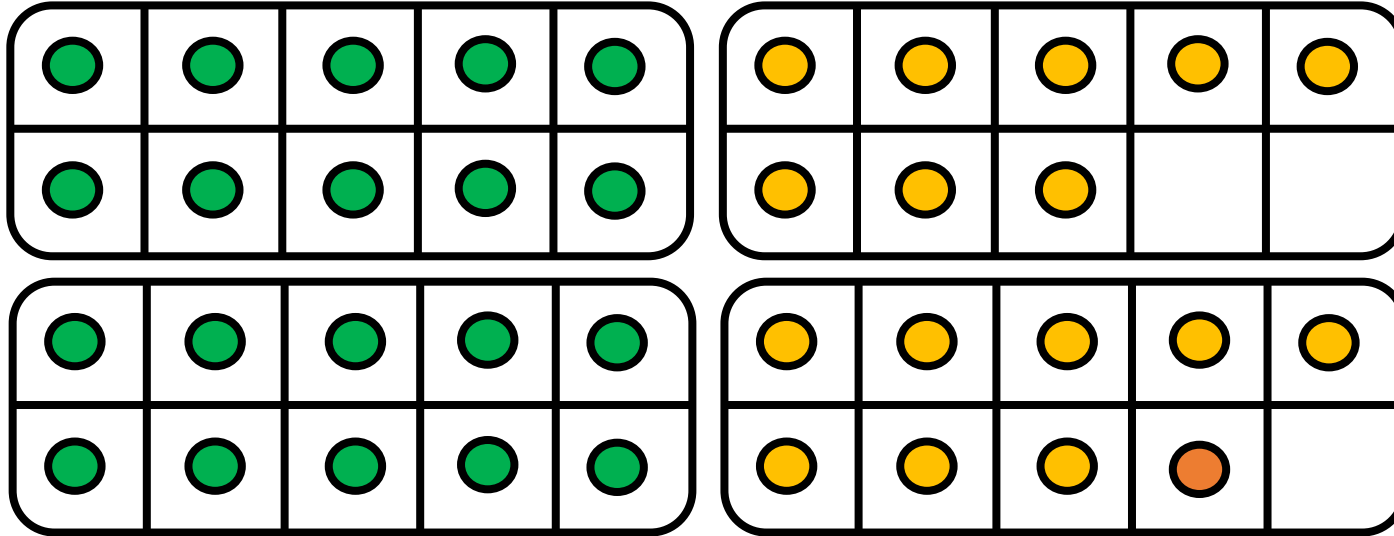
$$10 + 8 + 10 + 8 + 1$$





CM 22: Utiliser la technique des presque doubles <20

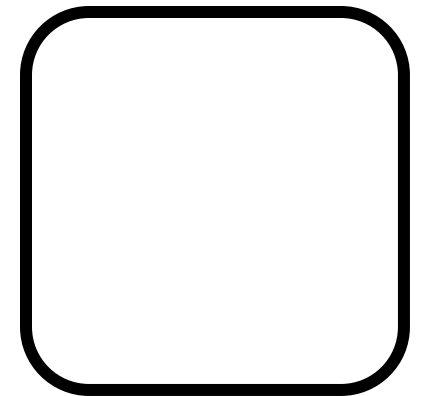
Combien font $18 + 19$?

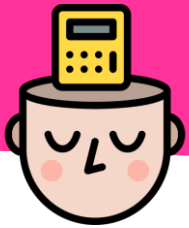


$$18 + 19 = \underline{\hspace{2cm}}$$

$$10 + 8 + 10 + 8 + 1$$

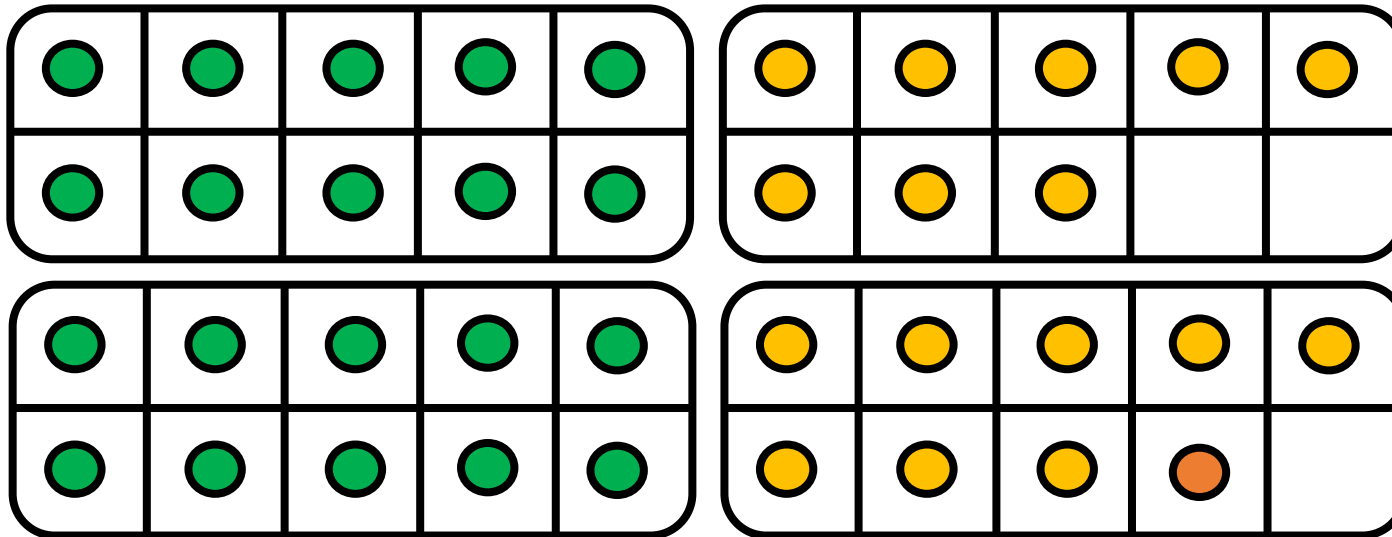
Diagram showing the decomposition of the numbers into tens and ones, with lines connecting the 10s and 8s to the next row.





CM 22: Utiliser la technique des presque doubles <20

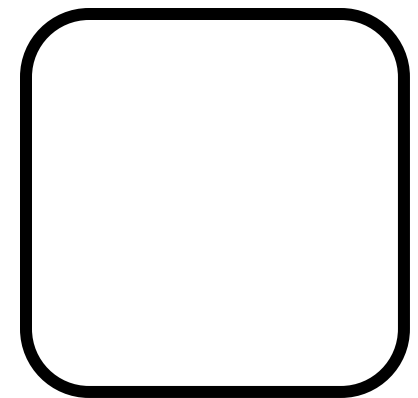
Combien font $18 + 19$?

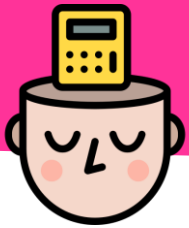


$$18 + 19 = \underline{\hspace{2cm}}$$

$$10 + 8 + 10 + 8 + 1$$

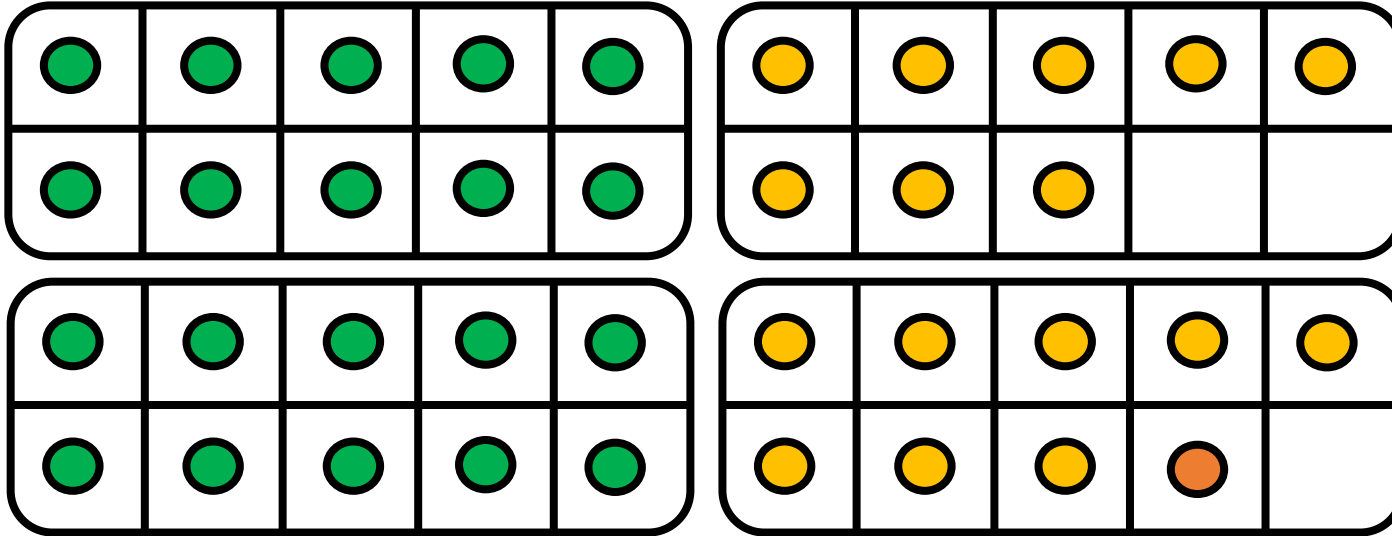
Diagram showing the decomposition of 18 and 19 into tens and ones, with lines connecting the 8 and 10 to a 16 below, illustrating the 'almost double' technique.





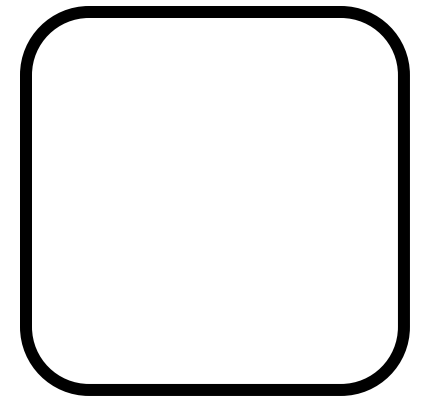
CM 22: Utiliser la technique des presque doubles <20

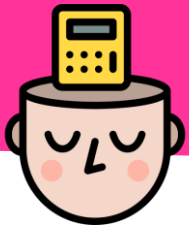
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

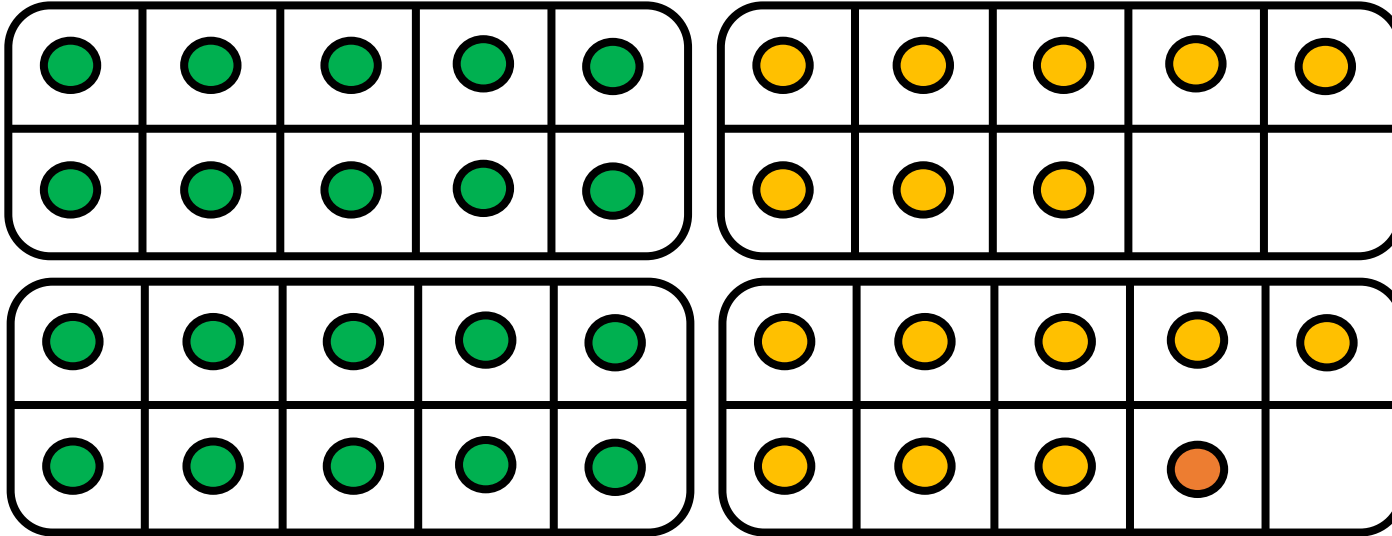
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & & \swarrow & & \swarrow & & \swarrow & & \\ & & 16 & & & & 1 & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 19$?

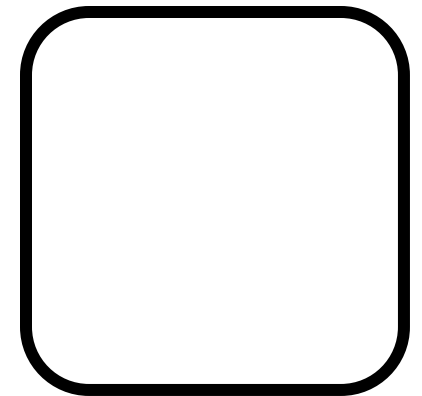


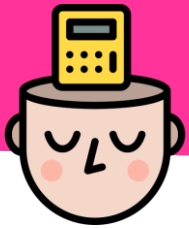
$$18 + 19 = \underline{\hspace{2cm}}$$

$$10 + 8 + 10 + 8 + 1$$

Diagram showing the decomposition of the numbers into tens and ones, with lines connecting the 8s to a 17 below them.

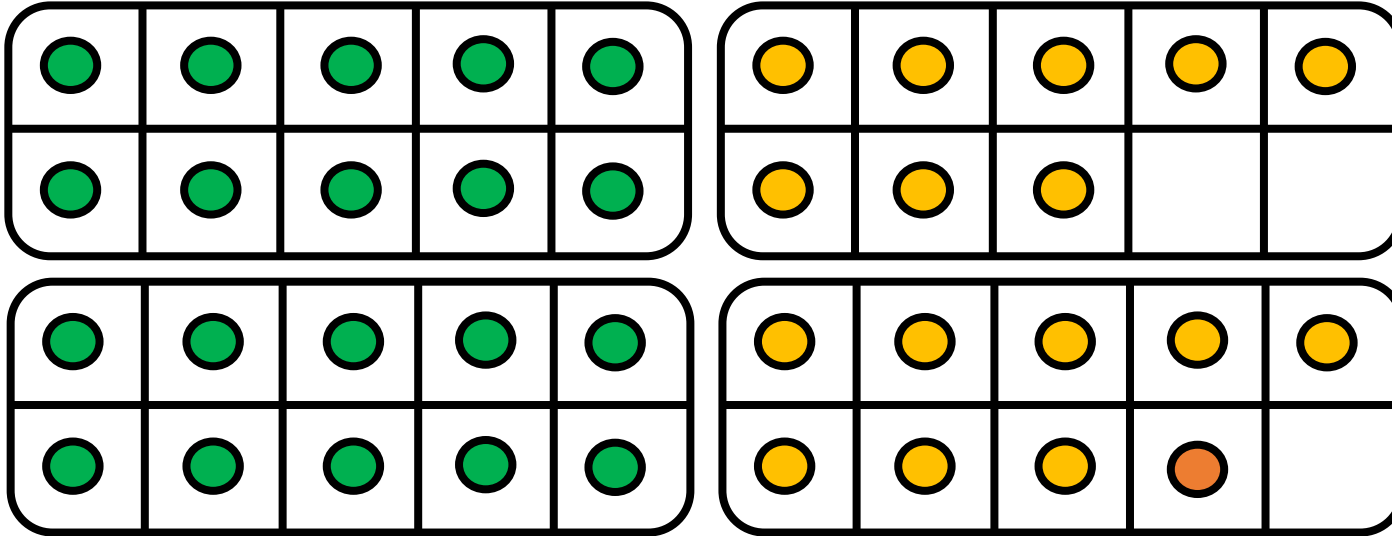
$$17$$





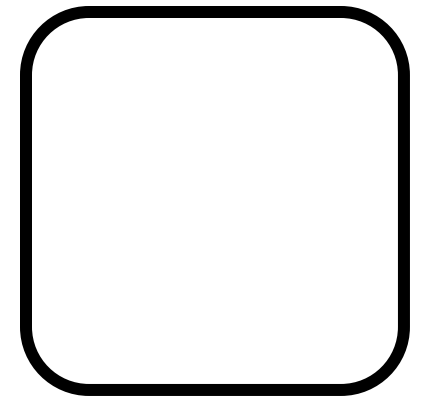
CM 22: Utiliser la technique des presque doubles <20

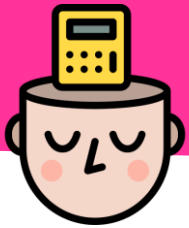
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

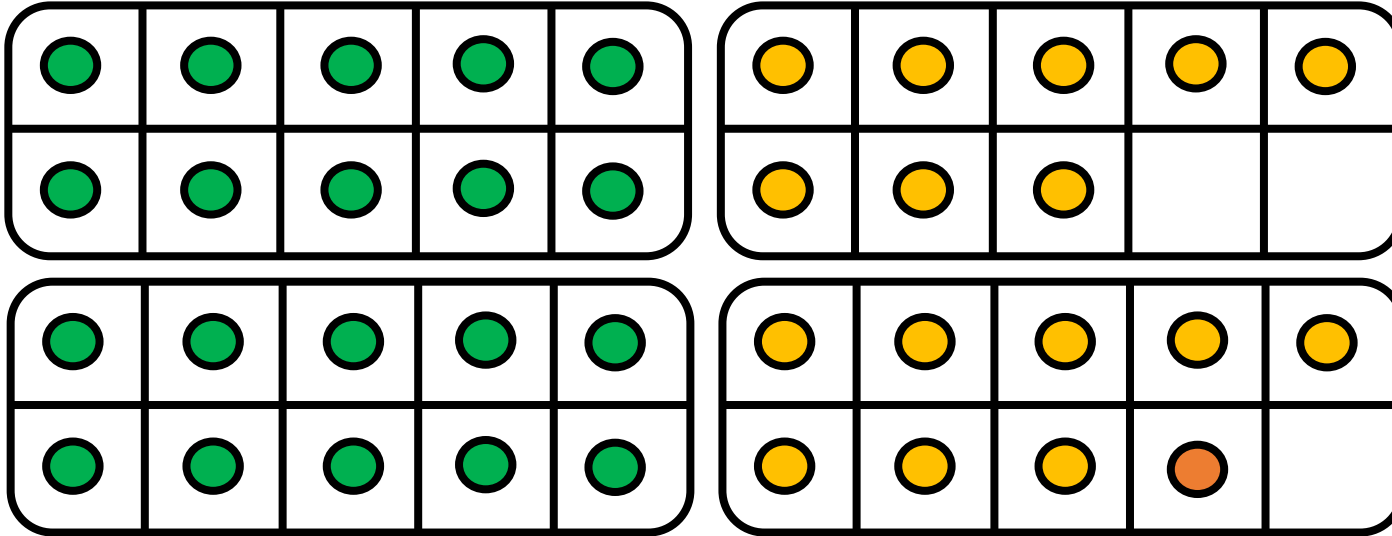
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \searrow & \swarrow & & \swarrow & \searrow & & & \\ & & & & 17 & & & & \end{array}$$





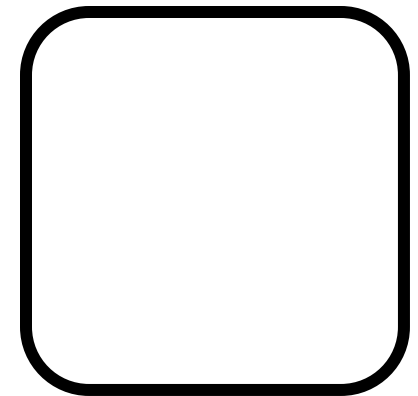
CM 22: Utiliser la technique des presque doubles <20

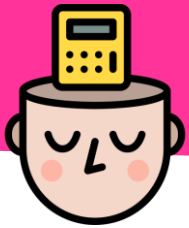
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

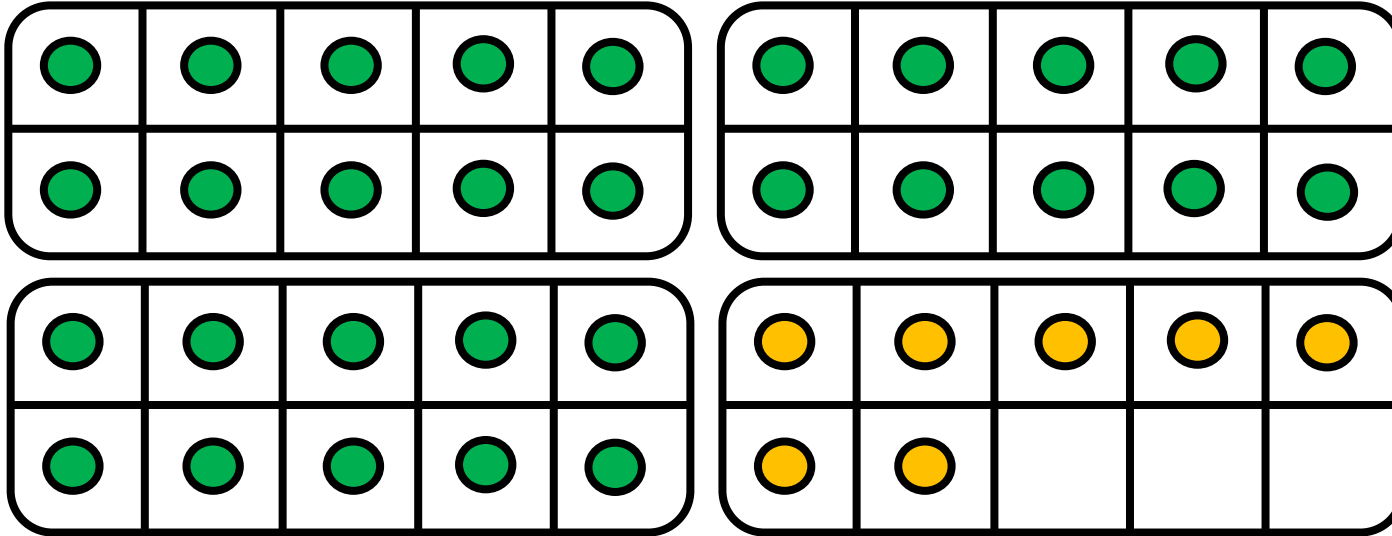
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 20 & & & 17 & & & & \end{array}$$





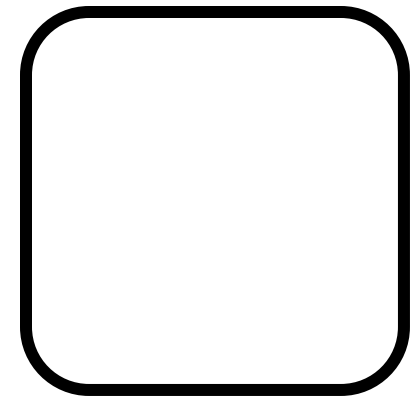
CM 22: Utiliser la technique des presque doubles <20

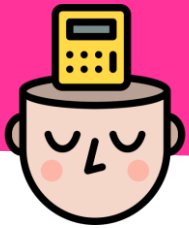
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

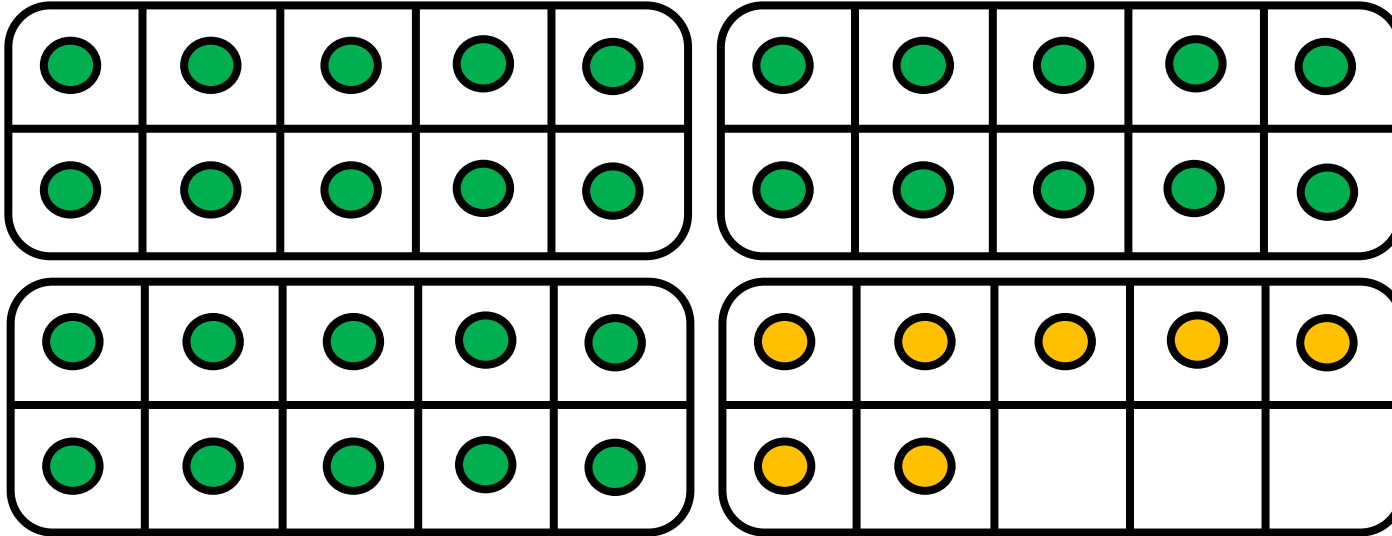
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & & \\ & 20 & & & 17 & & & & \end{array}$$





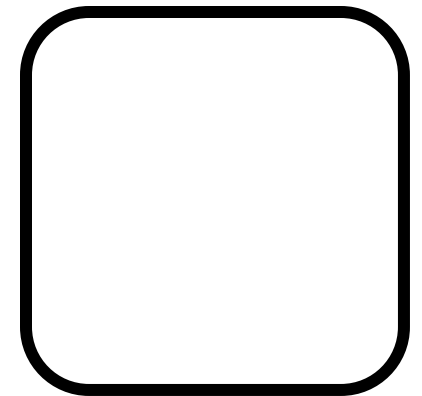
CM 22: Utiliser la technique des presque doubles <20

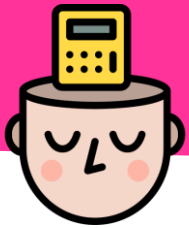
Combien font $18 + 19$?



$$18 + 19 = \underline{\hspace{2cm}}$$

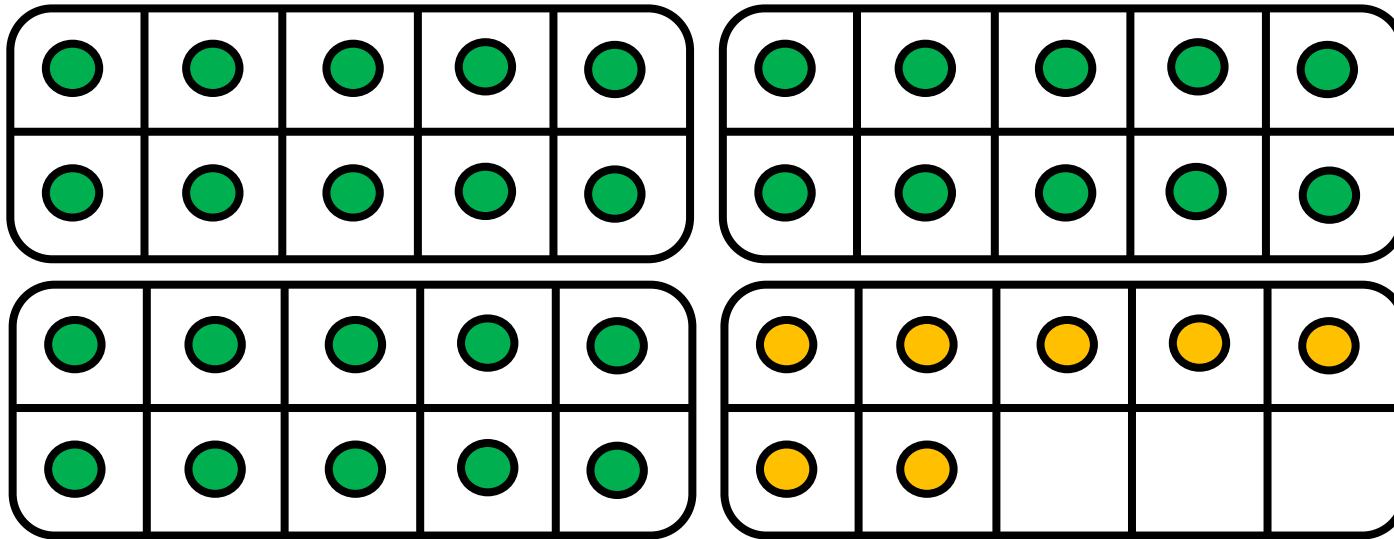
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 30 & & & 7 & & & & \end{array}$$





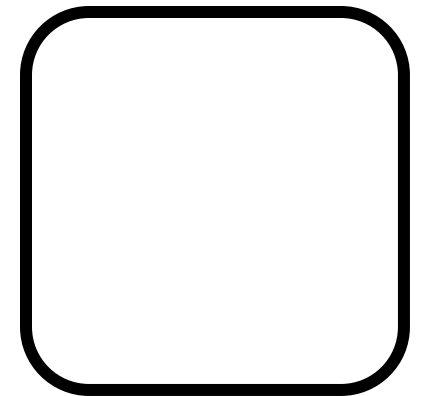
CM 22: Utiliser la technique des presque doubles <20

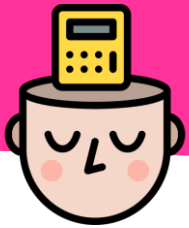
Combien font $18 + 19$?



$$18 + 19 = \underline{37}$$

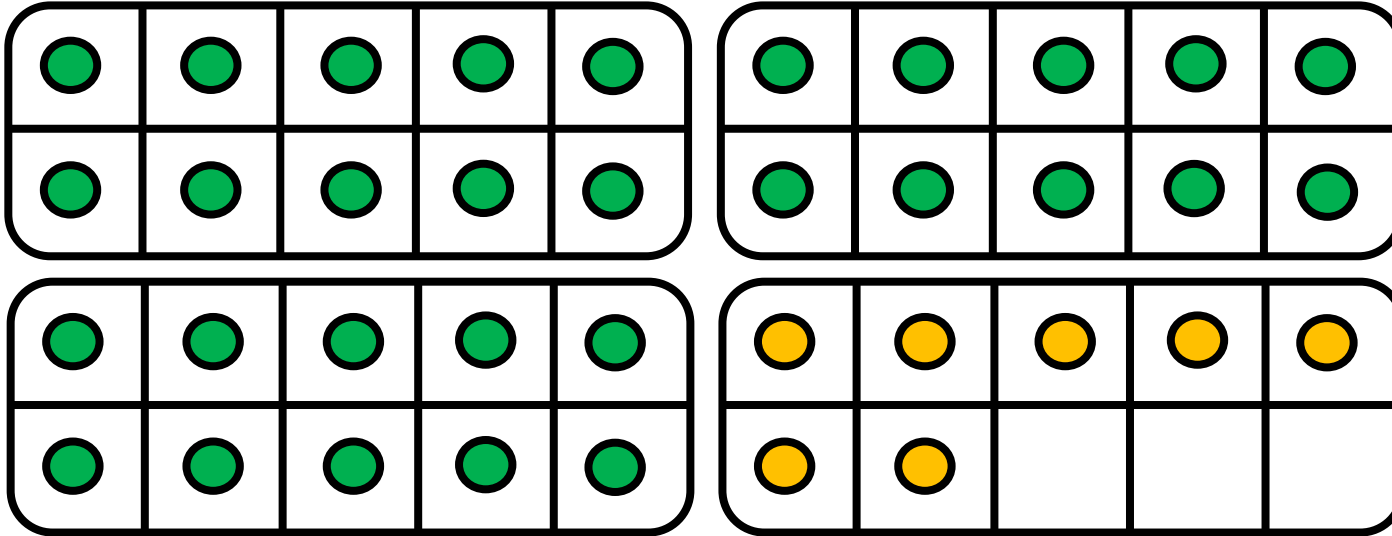
$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 30 & & & 7 & & & & \end{array}$$





CM 22: Utiliser la technique des presque doubles <20

Combien font $18 + 19$?



$$18 + 19 = \underline{37}$$

$$\begin{array}{ccccccc} 10 & + & 8 & + & 10 & + & 8 & + & 1 \\ & \swarrow & \searrow & & \swarrow & \searrow & & \swarrow & \searrow \\ & 30 & & & 7 & & & & \end{array}$$

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