

ADDITION WITHIN 1000

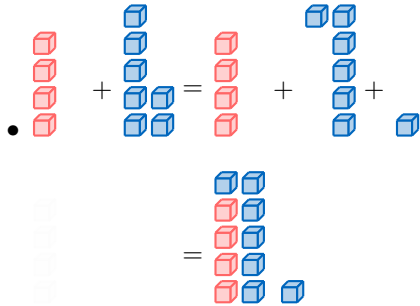
A WHAT IS ADDITION?

A.1 ADDING NUMBERS WITHIN 20

Ex 1:

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

Answer:

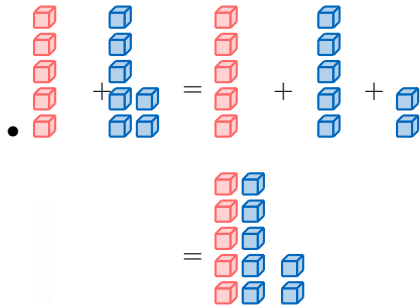


$$\begin{aligned} 4 + 7 &= 4 + 6 + 1 \\ &= 10 + 1 \\ &= 11 \end{aligned}$$

Ex 2:

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

Answer:

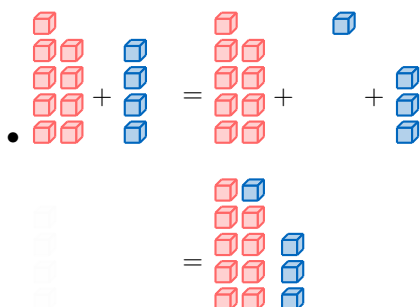


$$\begin{aligned} 5 + 7 &= 5 + 5 + 2 \\ &= 10 + 2 \\ &= 12 \end{aligned}$$

Ex 3:

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

Answer:

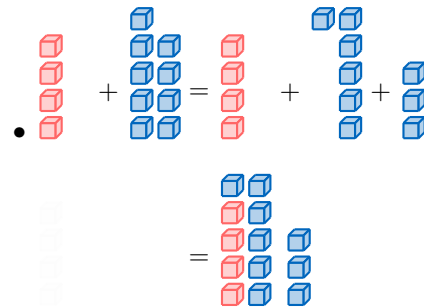


$$\begin{aligned} 9 + 4 &= 9 + 1 + 3 \\ &= 10 + 3 \\ &= 13 \end{aligned}$$

Ex 4:

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

Answer:

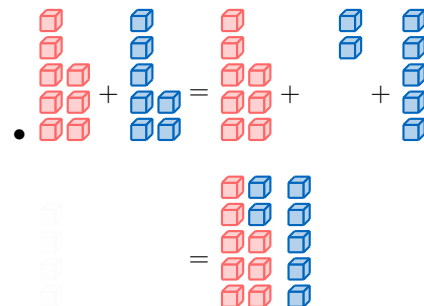


$$\begin{aligned} 4 + 9 &= 4 + 6 + 3 \\ &= 10 + 3 \\ &= 13 \end{aligned}$$

Ex 5:

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

Answer:

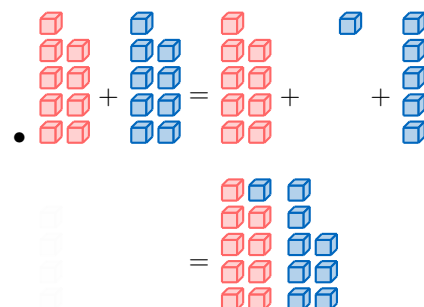


$$\begin{aligned} 8 + 7 &= 8 + 2 + 5 \\ &= 10 + 5 \\ &= 15 \end{aligned}$$

Ex 6:

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

Answer:

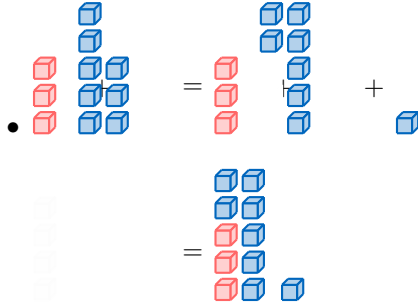


- $9 + 9 = 9 + 1 + 8$
 $= 10 + 8$
 $= 18$

Ex 7:

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

Answer:

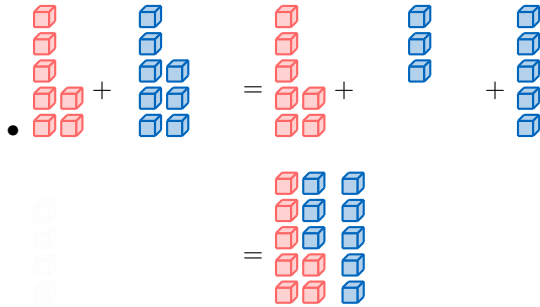


- $3 + 8 = 3 + 7 + 1$
 $= 10 + 1$
 $= 11$

Ex 8:

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

Answer:

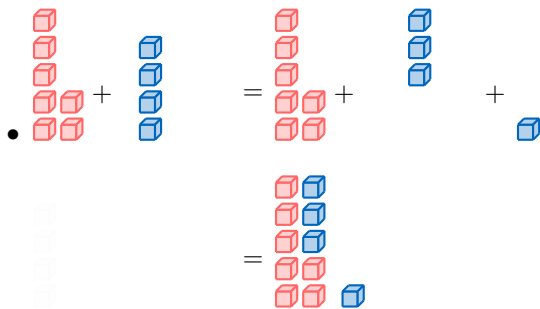


- $7 + 8 = 7 + 3 + 5$
 $= 10 + 5$
 $= 15$

Ex 9:

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

Answer:



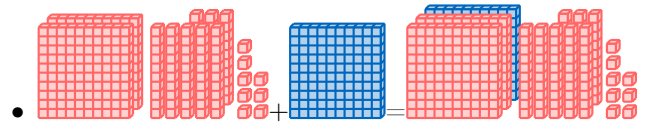
- $7 + 4 = 7 + 3 + 1$
 $= 10 + 1$
 $= 11$

A.2 ADDING 100

Ex 10:

$$288 + 100 = \boxed{388}$$

Answer:

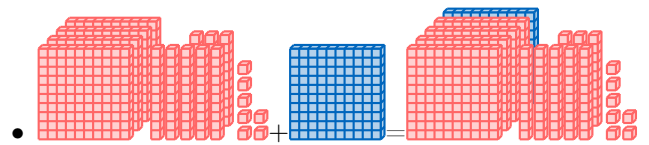


- $288 + 100 = 388$

Ex 11:

$$487 + 100 = \boxed{587}$$

Answer:

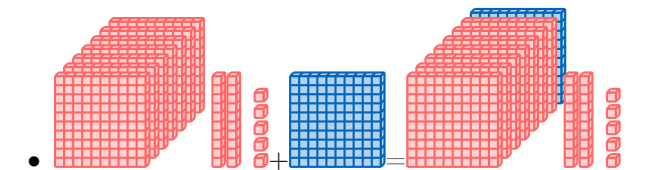


- $487 + 100 = 587$

Ex 12:

$$725 + 100 = \boxed{825}$$

Answer:

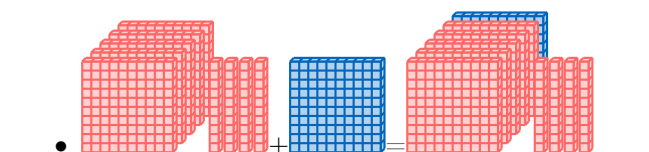


- $725 + 100 = 825$

Ex 13:

$$540 + 100 = \boxed{640}$$

Answer:



- $540 + 100 = 640$

B ADDING IN COLUMNS

B.1 ADDING UP TO 1000 WITHOUT REGROUPING

Ex 14: On your paper, set up a column addition:

$$130 + 123 = \boxed{253}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 130 \\ + 123 \\ \hline \end{array}$$

- Add the ones: $0 + 3 = 3$

$$\begin{array}{r} 130 \\ + 123 \\ \hline 3 \end{array}$$

- Add the tens: $3 + 2 = 5$

$$\begin{array}{r} 130 \\ + 123 \\ \hline 53 \end{array}$$

- Add the hundreds: $1 + 1 = 2$

$$\begin{array}{r} 130 \\ + 123 \\ \hline 253 \end{array}$$

- So, $130 + 123 = 253$

Ex 15: On your paper, set up a column addition:

$$346 + 232 = \boxed{578}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 346 \\ + 232 \\ \hline \end{array}$$

- Add the ones: $6 + 2 = 8$

$$\begin{array}{r} 346 \\ + 232 \\ \hline 8 \end{array}$$

- Add the tens: $4 + 3 = 7$

$$\begin{array}{r} 346 \\ + 232 \\ \hline 78 \end{array}$$

- Add the hundreds: $3 + 2 = 5$

$$\begin{array}{r} 346 \\ + 232 \\ \hline 578 \end{array}$$

- So, $346 + 232 = 578$

Ex 16: On your paper, set up a column addition:

$$460 + 137 = \boxed{597}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 460 \\ + 137 \\ \hline \end{array}$$

- Add the ones: $0 + 7 = 7$

$$\begin{array}{r} 460 \\ + 137 \\ \hline 7 \end{array}$$

- Add the tens: $6 + 3 = 9$

$$\begin{array}{r} 460 \\ + 137 \\ \hline 97 \end{array}$$

- Add the hundreds: $4 + 1 = 5$

$$\begin{array}{r} 460 \\ + 137 \\ \hline 597 \end{array}$$

- So, $460 + 137 = 597$

Ex 17: On your paper, set up a column addition:

$$373 + 25 = \boxed{398}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 373 \\ + 25 \\ \hline \end{array}$$

- Add the ones: $3 + 5 = 8$

$$\begin{array}{r} 373 \\ + 25 \\ \hline 8 \end{array}$$

- Add the tens: $7 + 2 = 9$

$$\begin{array}{r} 373 \\ + 25 \\ \hline 98 \end{array}$$

- Add the hundreds: $3 + 0 = 3$

$$\begin{array}{r} 373 \\ + 25 \\ \hline 398 \end{array}$$

- So, $373 + 25 = 398$

Ex 18: On your paper, set up a column addition:

$$43 + 316 = \boxed{359}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 43 \\ + 316 \\ \hline \end{array}$$

- Add the ones: $3 + 6 = 9$

$$\begin{array}{r} 43 \\ + 316 \\ \hline 9 \end{array}$$

- Add the tens: $4 + 1 = 5$

$$\begin{array}{r} 43 \\ + 316 \\ \hline 59 \end{array}$$

- Add the hundreds: $0 + 3 = 3$

$$\begin{array}{r} 43 \\ + 316 \\ \hline 359 \end{array}$$

- So, $43 + 316 = 359$

B.2 ADDING NUMBERS UP TO 1000 WITH ONE CARRYOVER

Ex 19: On your paper, set up a column addition:

$$130 + 183 = \boxed{313}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 130 \\ + 183 \\ \hline \end{array}$$

- Add the ones: $0 + 3 = 3$

$$\begin{array}{r} 130 \\ + 183 \\ \hline 3 \end{array}$$

- Add the tens: $3 + 8 = 11$ (1 carried to the hundreds column)

$$\begin{array}{r} 1 \\ 130 \\ + 183 \\ \hline 13 \end{array}$$

- Add the hundreds: $1 + 1 + 1 = 3$

$$\begin{array}{r} 1 \\ 130 \\ + 183 \\ \hline 313 \end{array}$$

- So, $130 + 183 = 313$

Ex 20: On your paper, set up a column addition:

$$262 + 386 = \boxed{648}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 262 \\ + 386 \\ \hline \end{array}$$

- Add the ones: $2 + 6 = 8$

$$\begin{array}{r} 262 \\ + 386 \\ \hline 8 \end{array}$$

- Add the tens: $6 + 8 = 14$ (1 carried to the hundreds column)

$$\begin{array}{r} 1 \\ 262 \\ + 386 \\ \hline 48 \end{array}$$

- Add the hundreds: $1 + 2 + 3 = 6$

$$\begin{array}{r} 1 \\ 262 \\ + 386 \\ \hline 648 \end{array}$$

- So, $262 + 386 = 648$

Ex 21: On your paper, set up a column addition:

$$136 + 244 = \boxed{380}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 136 \\ + 244 \\ \hline \end{array}$$

- Add the ones: $6 + 4 = 10$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 136 \\ + 244 \\ \hline 0 \end{array}$$

- Add the tens: $1 + 3 + 4 = 8$

$$\begin{array}{r} 1 \\ 136 \\ + 244 \\ \hline 80 \end{array}$$

- Add the hundreds: $1 + 2 = 3$

$$\begin{array}{r} 1 \\ 136 \\ + 244 \\ \hline 380 \end{array}$$

- So, $136 + 244 = 380$

Ex 22: On your paper, set up a column addition:

$$38 + 657 = \boxed{695}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 38 \\ + 657 \\ \hline \end{array}$$

- Add the ones: $8 + 7 = 15$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 38 \\ + 657 \\ \hline 5 \end{array}$$

- Add the tens: $1 + 3 + 5 = 9$

$$\begin{array}{r} 1 \\ 38 \\ + 657 \\ \hline 95 \end{array}$$

- Add the hundreds: $0 + 6 = 6$

$$\begin{array}{r} 1 \\ 38 \\ + 657 \\ \hline 695 \end{array}$$

- So, $38 + 657 = 695$

Ex 23: On your paper, set up a column addition:

$$390 + 597 = \boxed{987}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 390 \\ + 597 \\ \hline \end{array}$$

- Add the ones: $0 + 7 = 7$

$$\begin{array}{r} 390 \\ + 597 \\ \hline 7 \end{array}$$

- Add the tens: $9 + 9 = 18$ (1 carried to the hundreds column)

$$\begin{array}{r} 390 \\ + 597 \\ \hline 87 \end{array}$$

- Add the hundreds: $1 + 3 + 5 = 9$

$$\begin{array}{r} 1 \\ 390 \\ + 597 \\ \hline 987 \end{array}$$

- So, $390 + 597 = 987$

B.3 ADDING NUMBERS UP TO 1000 WITH TWO CARRYOVERS

Ex 24: On your paper, set up a column addition:

$$146 + 155 = \boxed{301}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 146 \\ + 155 \\ \hline \end{array}$$

- Add the ones: $6 + 5 = 11$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 146 \\ + 155 \\ \hline 1 \end{array}$$

- Add the tens: $1 + 4 + 5 = 10$ (1 carried to the hundreds column)

$$\begin{array}{r} 11 \\ 146 \\ + 155 \\ \hline 01 \end{array}$$

- Add the hundreds: $1 + 1 + 1 = 3$

$$\begin{array}{r} 11 \\ 146 \\ + 155 \\ \hline 301 \end{array}$$

- So, $146 + 155 = 301$

Ex 25: On your paper, set up a column addition:

$$389 + 462 = \boxed{851}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 389 \\ + 462 \\ \hline \end{array}$$

- Add the ones: $9 + 2 = 11$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 389 \\ + 462 \\ \hline 1 \end{array}$$

- Add the tens: $1 + 8 + 6 = 15$ (1 carried to the hundreds column)

$$\begin{array}{r} 11 \\ 389 \\ + 462 \\ \hline 51 \end{array}$$

- Add the hundreds: $1 + 3 + 4 = 8$

$$\begin{array}{r} 11 \\ 389 \\ + 462 \\ \hline 851 \end{array}$$

- So, $389 + 462 = 851$

Ex 26: On your paper, set up a column addition:

$$326 + 189 = \boxed{515}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 326 \\ + 189 \\ \hline \end{array}$$

- Add the ones: $6 + 9 = 15$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 326 \\ + 189 \\ \hline 5 \end{array}$$

- Add the tens: $1 + 2 + 8 = 11$ (1 carried to the hundreds column)

$$\begin{array}{r} 11 \\ 326 \\ + 189 \\ \hline 15 \end{array}$$

- Add the hundreds: $1 + 3 + 1 = 5$

$$\begin{array}{r} 11 \\ 326 \\ + 189 \\ \hline 515 \end{array}$$

- So, $326 + 189 = 515$

Ex 27: On your paper, set up a column addition:

$$373 + 89 = \boxed{462}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 373 \\ + 89 \\ \hline \end{array}$$

- Add the ones: $3 + 9 = 12$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 373 \\ + 89 \\ \hline 2 \end{array}$$

- Add the tens: $1 + 7 + 8 = 16$ (1 carried to the hundreds column)

$$\begin{array}{r} 1 \ 1 \\ 3 \ 7 \ 3 \\ + \ 8 \ 9 \\ \hline 6 \ 2 \end{array}$$

- Add the hundreds: $1 + 3 = 4$

$$\begin{array}{r} 1 \ 1 \\ 3 \ 7 \ 3 \\ + \ 8 \ 9 \\ \hline 4 \ 6 \ 2 \end{array}$$

- So, $373 + 89 = 462$

Ex 28: On your paper, set up a column addition:

$$364 + 599 = \boxed{963}$$

Answer:

- Set up the addition:

$$\begin{array}{r} 3 \ 6 \ 4 \\ + \ 5 \ 9 \ 9 \\ \hline \end{array}$$

- Add the ones: $4 + 9 = 13$ (1 carried to the tens column)

$$\begin{array}{r} 1 \\ 3 \ 6 \ 4 \\ + \ 5 \ 9 \ 9 \\ \hline 3 \end{array}$$

- Add the tens: $1 + 6 + 9 = 16$ (1 carried to the hundreds column)

$$\begin{array}{r} 1 \ 1 \\ 3 \ 6 \ 4 \\ + \ 5 \ 9 \ 9 \\ \hline 6 \ 3 \end{array}$$

- Add the hundreds: $1 + 3 + 5 = 9$

$$\begin{array}{r} 1 \ 1 \\ 3 \ 6 \ 4 \\ + \ 5 \ 9 \ 9 \\ \hline 9 \ 6 \ 3 \end{array}$$

- So, $364 + 599 = 963$

B.4 SOLVING REAL-WORLD PROBLEMS

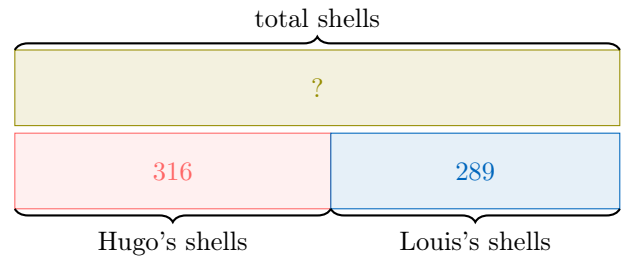
Ex 29: Hugo and Louis are looking for shells. Hugo found 316 shells, and Louis found 289 shells.

How many shells do they have together in total?

$$\boxed{605} \text{ shells}$$

Answer:

- To find the total number of shells, add the shells Hugo found and the shells Louis found.



- The column addition is:

$$\begin{array}{r} 1 \ 1 \\ 3 \ 1 \ 6 \\ + \ 2 \ 8 \ 9 \\ \hline 6 \ 0 \ 5 \end{array}$$

- The total number of shells is $316 + 289 = 605$.

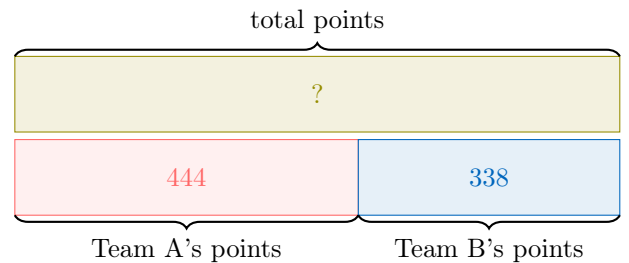
Ex 30: In a basketball match, Team A scored 444 points and Team B scored 338 points.

How many points did they score together in total?

$$\boxed{782} \text{ points}$$

Answer:

- To find the total points scored, add Team A's points and Team B's points.



- The column addition is:

$$\begin{array}{r} 1 \\ 4 \ 4 \ 4 \\ + \ 3 \ 3 \ 8 \\ \hline 7 \ 8 \ 2 \end{array}$$

- The total points scored is $444 + 338 = 782$.

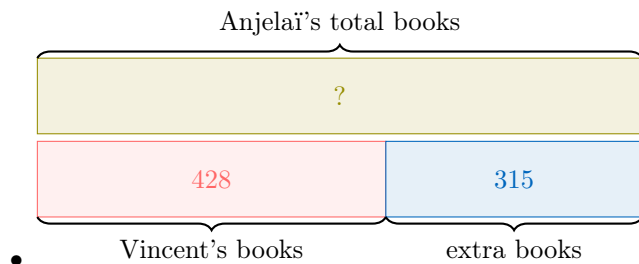
Ex 31: Anjelai has read 315 more books than Vincent, who has read 428 books this year.

How many books has Anjelai read in total?

$$\boxed{743} \text{ books}$$

Answer:

- To find the total number of books Anjelai has read, add Vincent's books to the extra books Anjelai read.



- The column addition is:

$$\begin{array}{r}
 1 \\
 428 \\
 + 315 \\
 \hline
 743
 \end{array}$$

- The total number of books Anjelaï has read is $428 + 315 = 743$.

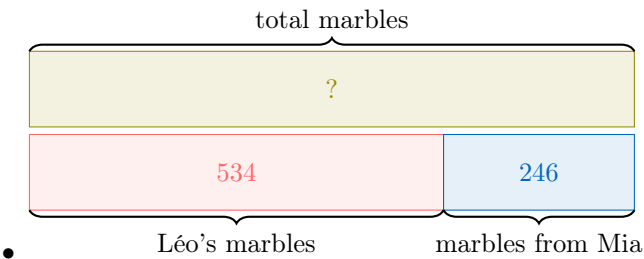
Ex 32: Léo has 534 marbles, and his friend Mia gave him 246 more marbles.

How many marbles does Léo have in total?

780 marbles

Answer:

- To find the total number of marbles Léo has, add the marbles he already had to the marbles Mia gave him.



- The column addition is:

$$\begin{array}{r}
 1 \\
 534 \\
 + 246 \\
 \hline
 780
 \end{array}$$

- The total number of marbles Léo has is $534 + 246 = 780$.