

# ADDITION WITHIN 20

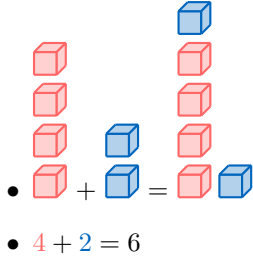
## A WHAT IS ADDITION?

### A.1 ADDING NUMBERS WITHIN 10

Ex 1:

$$4 + 2 = \boxed{6}$$

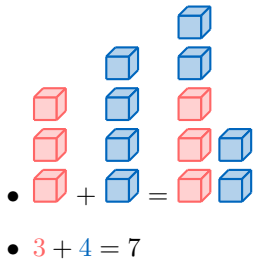
Answer:



Ex 2:

$$3 + 4 = \boxed{7}$$

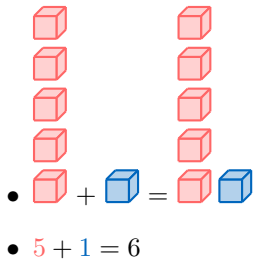
Answer:



Ex 3:

$$5 + 1 = \boxed{6}$$

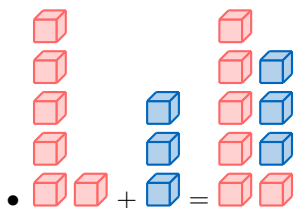
Answer:



Ex 4:

$$6 + 3 = \boxed{9}$$

Answer:

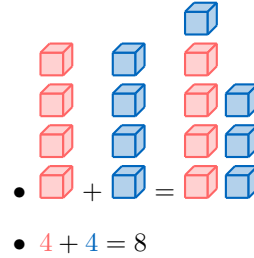


•  $6 + 3 = 9$

Ex 5:

$$4 + 4 = \boxed{8}$$

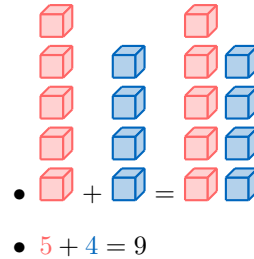
Answer:



Ex 6:

$$5 + 4 = \boxed{9}$$

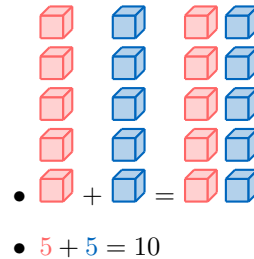
Answer:



Ex 7:

$$5 + 5 = \boxed{10}$$

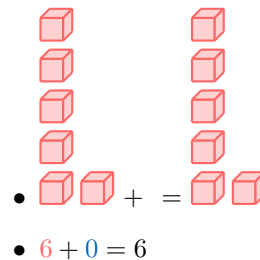
Answer:



Ex 8:

$$6 + 0 = \boxed{6}$$

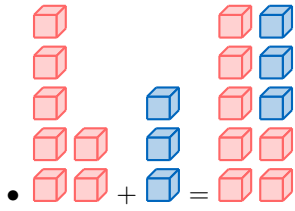
Answer:



Ex 9:

$$7 + 3 = \boxed{10}$$

Answer:

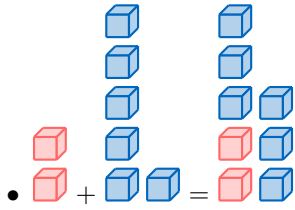


- $7 + 3 = 10$

Ex 10:

$$2 + 6 = \boxed{8}$$

Answer:

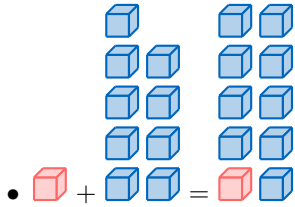


- $2 + 6 = 8$

Ex 11:

$$1 + 9 = \boxed{10}$$

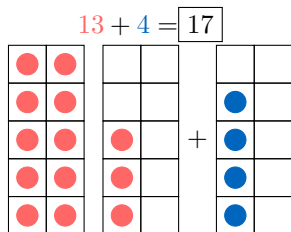
Answer:



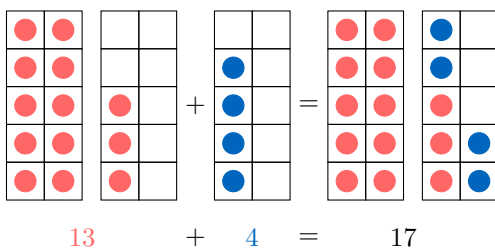
- $1 + 9 = 10$

## A.2 ADDING CIRCLES WITHIN 20

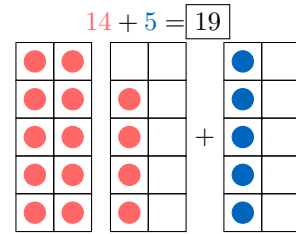
Ex 12:



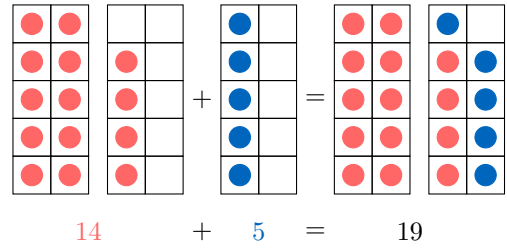
Answer:



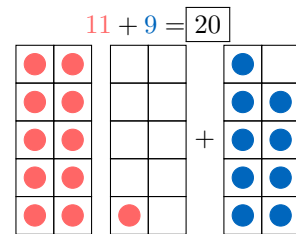
Ex 13:



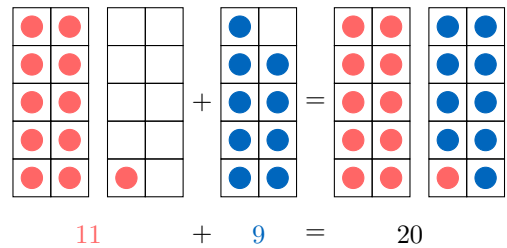
Answer:



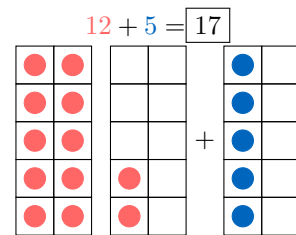
Ex 14:



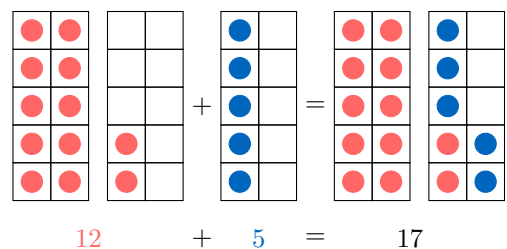
Answer:



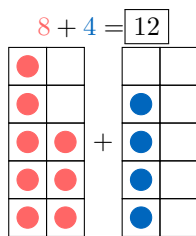
Ex 15:



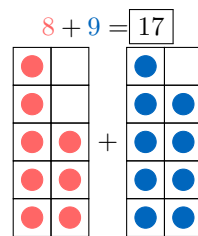
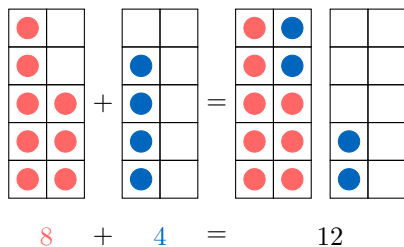
Answer:



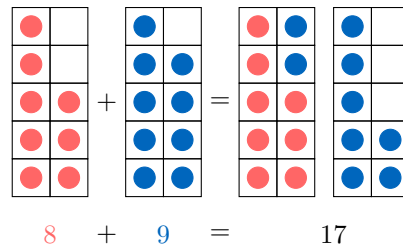
Ex 16:



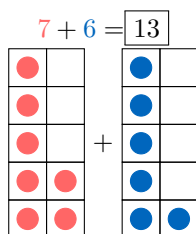
Answer:



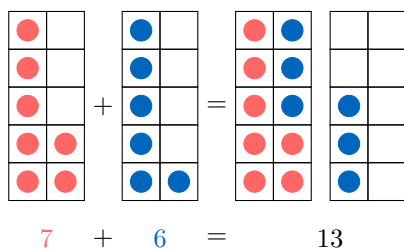
Answer:



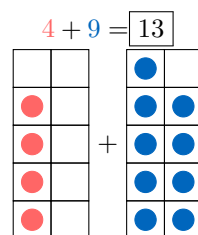
Ex 17:



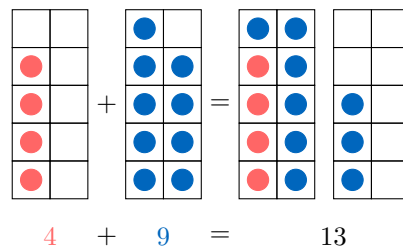
Answer:



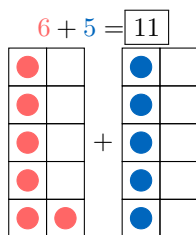
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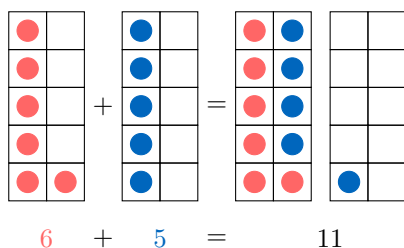
Answer:



Ex 18:



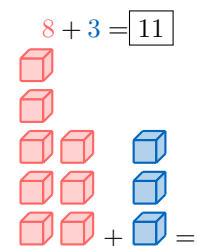
Answer:



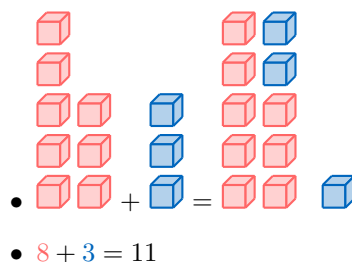
Ex 19:

### A.3 ADDING CUBES WITHIN 20

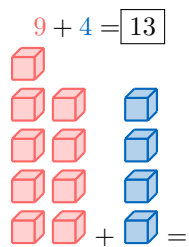
Ex 21:



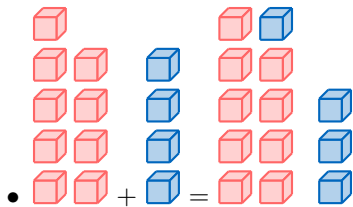
Answer:



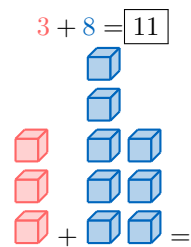
Ex 22:



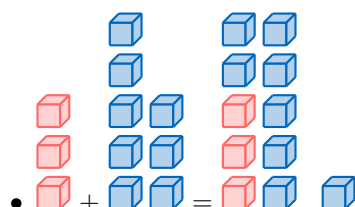
Answer:



•  $9 + 4 = 13$

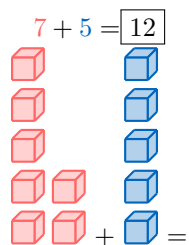


Answer:

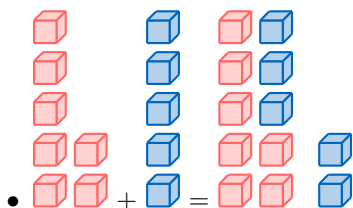


•  $3 + 8 = 11$

Ex 23:

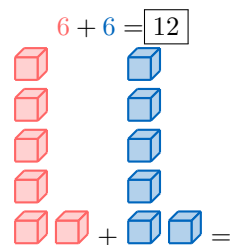


Answer:

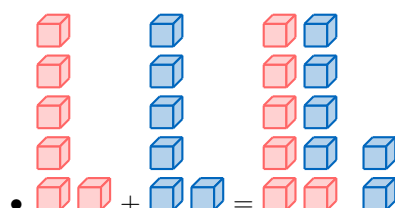


•  $7 + 5 = 12$

Ex 26:

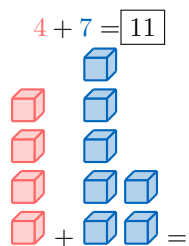


Answer:

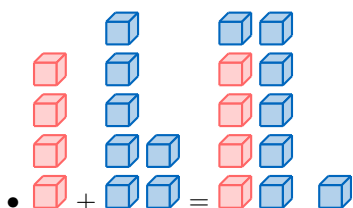


•  $6 + 6 = 12$

Ex 24:

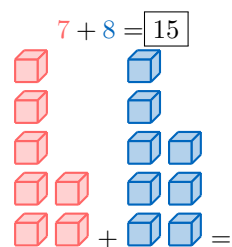


Answer:

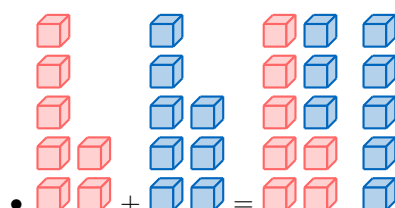


•  $4 + 7 = 11$

Ex 27:



Answer:

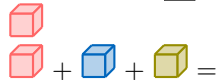


•  $7 + 8 = 15$

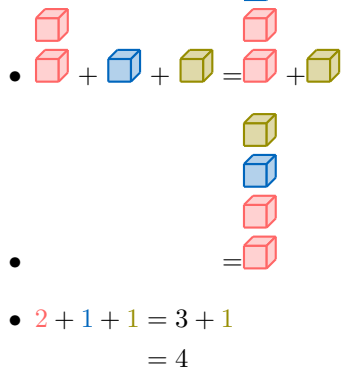
Ex 25:

## A.4 ADDING MULTIPLE NUMBERS

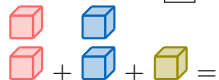
Ex 28:

$$2 + 1 + 1 = 4$$


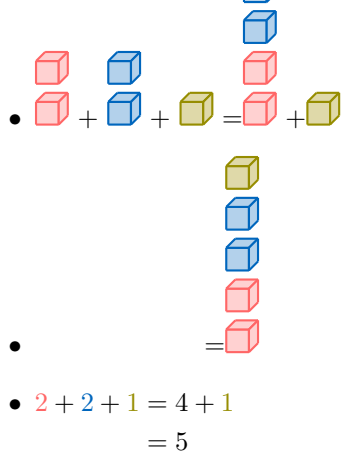
Answer:

$$2 + 1 + 1 = 3 + 1 = 4$$


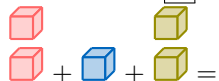
Ex 29:

$$2 + 2 + 1 = 5$$


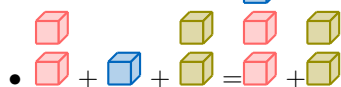
Answer:

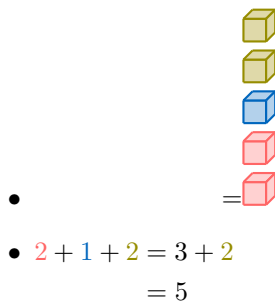
$$2 + 2 + 1 = 4 + 1 = 5$$


Ex 30:

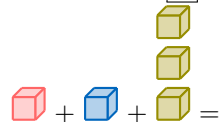
$$2 + 1 + 2 = 5$$


Answer:

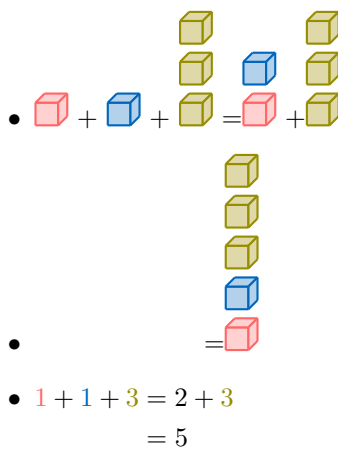
$$2 + 1 + 2 = 5 + 1 = 6$$


$$2 + 1 + 2 = 3 + 2 = 5$$


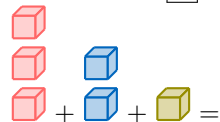
Ex 31:

$$1 + 1 + 3 = 5$$


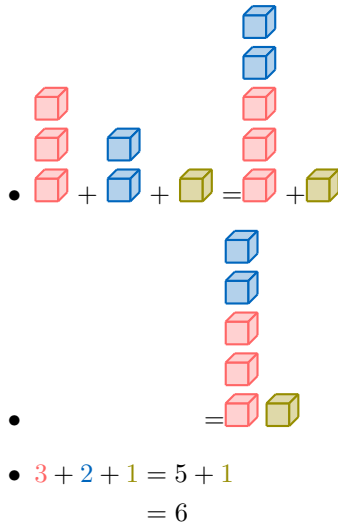
Answer:

$$1 + 1 + 3 = 2 + 3 = 5$$


Ex 32:

$$3 + 2 + 1 = 6$$


Answer:

$$3 + 2 + 1 = 5 + 1 = 6$$


Ex 33:

$$1 + 2 + 4 = \boxed{7}$$

Answer:

- $1 + 2 + 4 = 3 + 4 = 7$

## A.5 BREAKING DOWN NUMBERS

Ex 34:

$$3 = 2 + \boxed{1}$$

Answer:

- $3 = 2 + 1$

Ex 35:

$$5 = 3 + \boxed{2}$$

Answer:

- $5 = 3 + 2$

Ex 36:

$$4 = 1 + \boxed{3}$$

Answer:

- $4 = 1 + 3$

- $4 = 1 + 3$

Ex 37:

$$7 = 4 + \boxed{3}$$

Answer:

- $7 = 4 + 3$

Ex 38:

$$8 = 3 + \boxed{5}$$

Answer:

- $8 = 3 + 5$

Ex 39:

$$9 = 7 + \boxed{2}$$

Answer:

- $9 = 7 + 2$

Ex 40:

$$10 = 6 + \boxed{4}$$

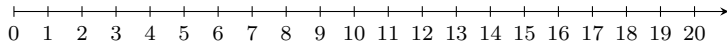
Answer:

- $10 = 6 + 4$

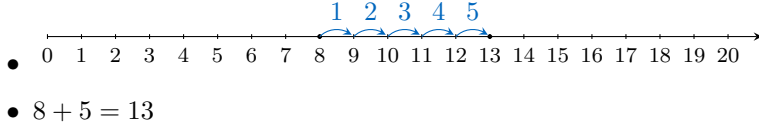
## B ADDING ON THE NUMBER LINE

### B.1 ADDING NUMBERS USING THE NUMBER LINE

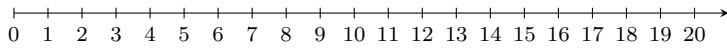
**Ex 41:**  $8 + 5 = \boxed{13}$



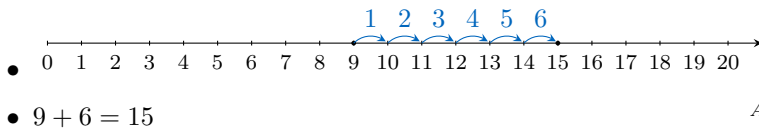
Answer:



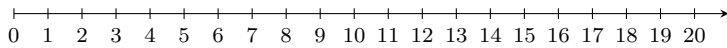
**Ex 42:**  $9 + 6 = \boxed{15}$



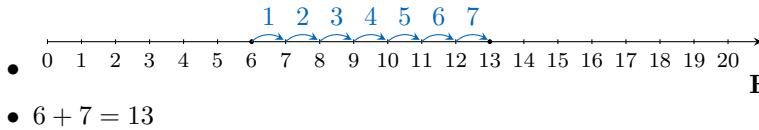
Answer:



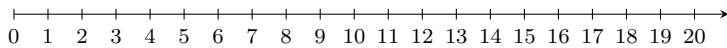
**Ex 43:**  $6 + 7 = \boxed{13}$



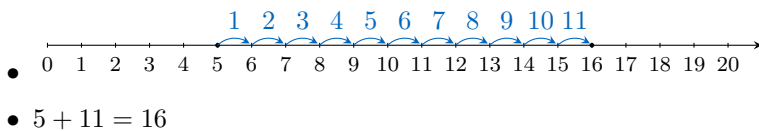
Answer:



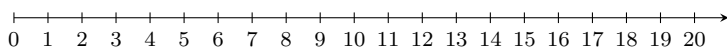
**Ex 44:**  $5 + 11 = \boxed{16}$



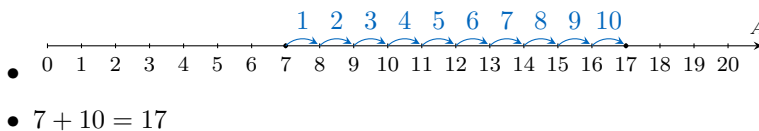
Answer:



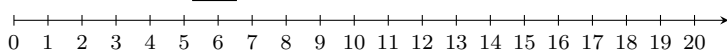
**Ex 45:**  $7 + 10 = \boxed{17}$



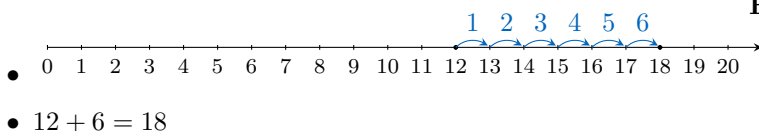
Answer:



**Ex 46:**  $12 + 6 = \boxed{18}$



Answer:



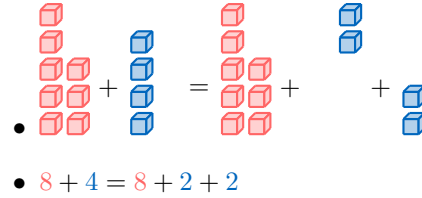
## C THE "MAKE A TEN" STRATEGY

### C.1 BREAKING DOWN NUMBERS TO MAKE TEN

**Ex 47:**

$8 + 4 = 8 + 2 + \boxed{2}$

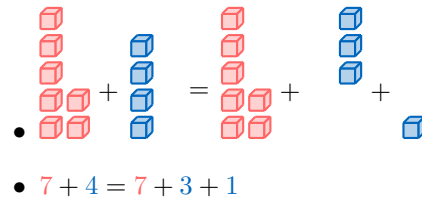
Answer:



**Ex 48:**

$7 + 4 = 7 + 3 + \boxed{1}$

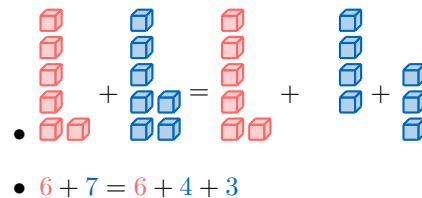
Answer:



**Ex 49:**

$6 + 7 = 6 + 4 + \boxed{3}$

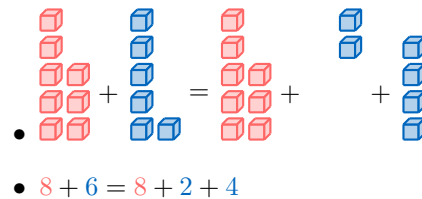
Answer:



**Ex 50:**

$8 + 6 = 8 + 2 + \boxed{4}$

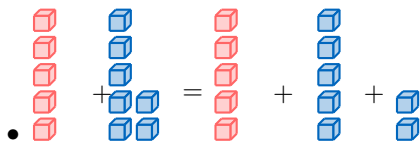
Answer:



**Ex 51:**

$5 + 7 = 5 + 5 + \boxed{2}$

Answer:

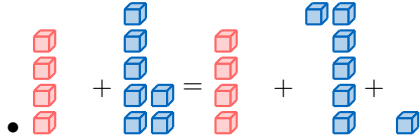


•  $5 + 7 = 5 + 5 + 2$

Ex 52:

$4 + 7 = 4 + 6 + 1$

Answer:

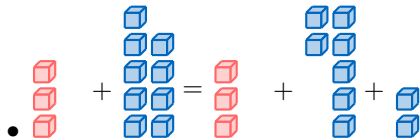


•  $4 + 7 = 4 + 6 + 1$

Ex 53:

$3 + 9 = 3 + 7 + 2$

Answer:



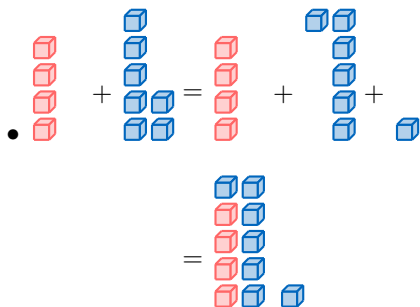
•  $3 + 9 = 3 + 7 + 2$

## C.2 MAKING 10 AFTER BREAKING DOWN NUMBERS

Ex 54:

$4 + 7 = 4 + 6 + 1$   
= 11

Answer:

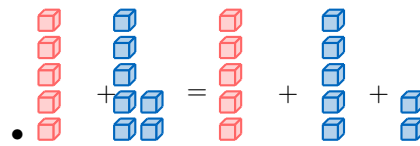


•  $4 + 7 = 4 + 6 + 1$   
= 10 + 1  
= 11

Ex 55:

$5 + 7 = 5 + 5 + 2$   
= 12

Answer:



•  $5 + 7 = 5 + 5 + 2$

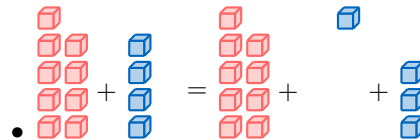
= 10 + 2

= 12

Ex 56:

$9 + 4 = 9 + 1 + 3$   
= 13

Answer:



•  $9 + 4 = 9 + 1 + 3$

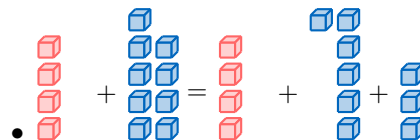
= 10 + 3

= 13

Ex 57:

$4 + 9 = 4 + 6 + 3$   
= 13

Answer:



•  $4 + 9 = 4 + 6 + 3$

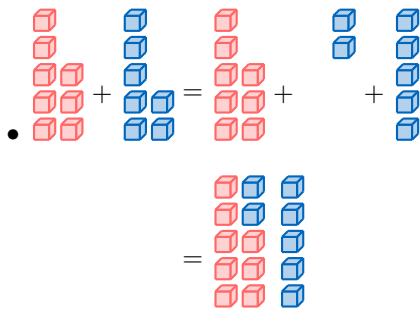
= 10 + 3

= 13

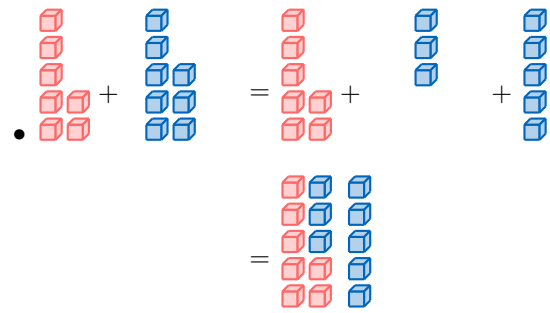
Ex 58:

$8 + 7 = 8 + 2 + 5$   
= 15

Answer:



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

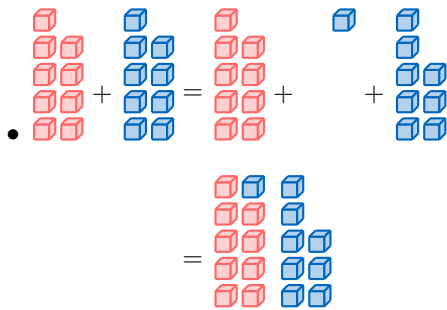


$$\begin{aligned} \bullet \quad 7 + 8 &= 7 + 3 + 5 \\ &= 10 + 5 \\ &= 15 \end{aligned}$$

Ex 59:

$$\begin{aligned} 9 + 9 &= 9 + 1 + 8 \\ &= \boxed{18} \end{aligned}$$

Answer:

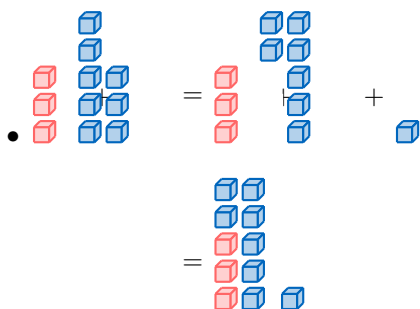


$$\begin{aligned} \bullet \quad 9 + 9 &= 9 + 1 + 8 \\ &= 10 + 8 \\ &= 18 \end{aligned}$$

Ex 60:

$$\begin{aligned} 3 + 8 &= 3 + 7 + 1 \\ &= \boxed{11} \end{aligned}$$

Answer:



$$\begin{aligned} \bullet \quad 3 + 8 &= 3 + 7 + 1 \\ &= 10 + 1 \\ &= 11 \end{aligned}$$

Ex 61:

$$\begin{aligned} 7 + 8 &= 7 + 3 + 5 \\ &= \boxed{15} \end{aligned}$$

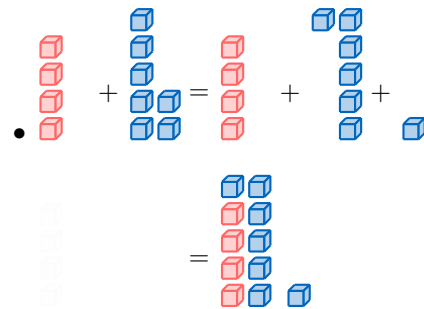
Answer:

### C.3 ADDING NUMBERS WITHIN 20

Ex 62:

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

Answer:

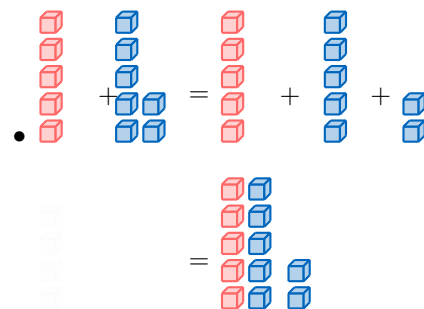


$$\begin{aligned} \bullet \quad 4 + 7 &= 4 + 6 + 1 \\ &= 10 + 1 \\ &= 11 \end{aligned}$$

Ex 63:

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

Answer:

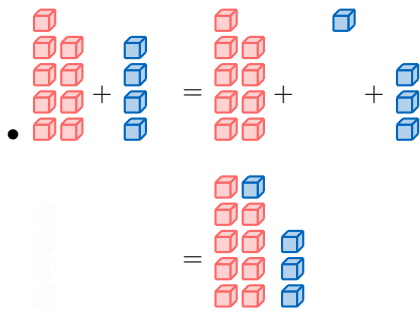


$$\begin{aligned} \bullet \quad 5 + 7 &= 5 + 5 + 2 \\ &= 10 + 2 \\ &= 12 \end{aligned}$$

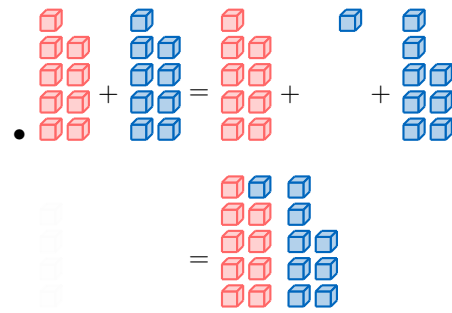
Ex 64:

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

Answer:



- $9 + 4 = 9 + 1 + 3$   
 $= 10 + 3$   
 $= 13$

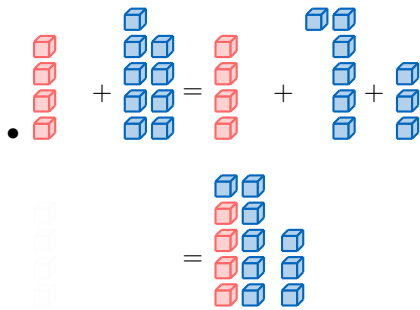


- $9 + 9 = 9 + 1 + 8$   
 $= 10 + 8$   
 $= 18$

Ex 65:

$4 + 9 = \boxed{13}$

Answer:

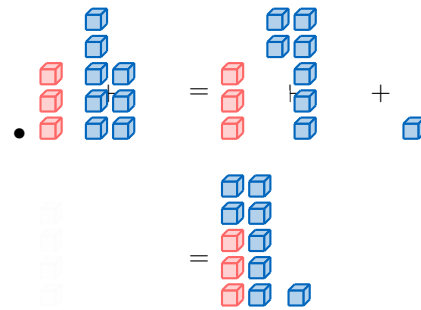


- $4 + 9 = 4 + 6 + 3$   
 $= 10 + 3$   
 $= 13$

Ex 68:

$3 + 8 = \boxed{11}$

Answer:

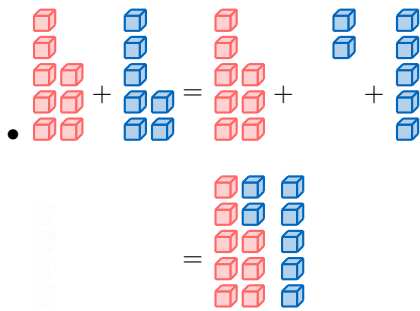


- $3 + 8 = 3 + 7 + 1$   
 $= 10 + 1$   
 $= 11$

Ex 66:

$8 + 7 = \boxed{15}$

Answer:

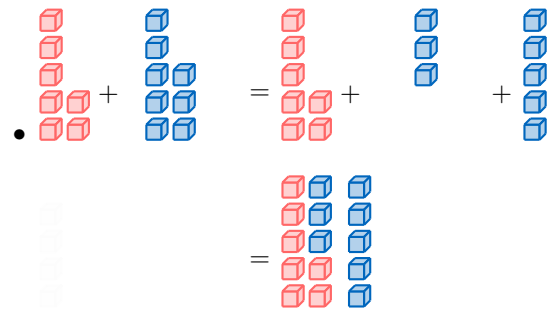


- $8 + 7 = 8 + 2 + 5$   
 $= 10 + 5$   
 $= 15$

Ex 69:

$7 + 8 = \boxed{15}$

Answer:



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

Ex 67:

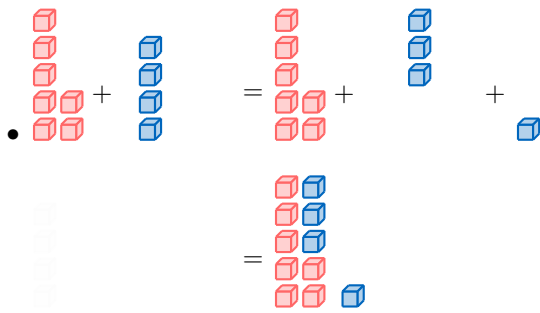
$9 + 9 = \boxed{18}$

Answer:

Ex 70:

$7 + 4 = \boxed{11}$

Answer:



- $$\begin{aligned}
 7 + 4 &= 7 + 3 + 1 \\
 &= 10 + 1 \\
 &= 11
 \end{aligned}$$