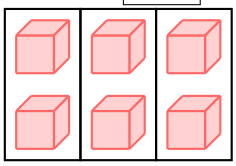
MULTIPLICATION

A DEFINITIONS

A.1 CALCULATING MULTIPLICATIONS USING CUBES

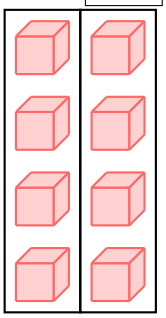
Ex 1:

$3 \times 2 =$ ☐



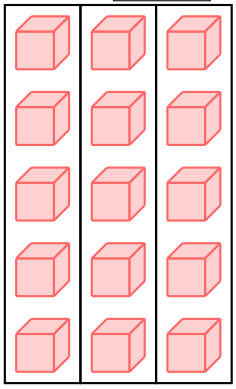
Ex 2:

$2 \times 4 =$ ☐



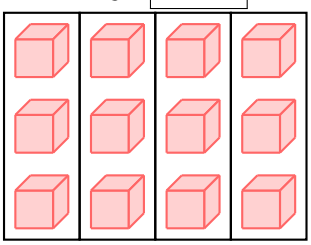
Ex 3:

$3 \times 5 =$ ☐



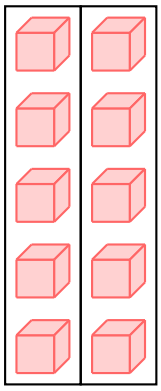
Ex 4:

$4 \times 3 =$ ☐



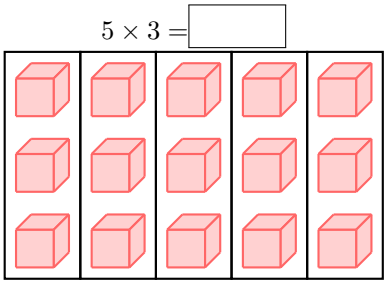
Ex 5:

$2 \times 5 =$ ☐



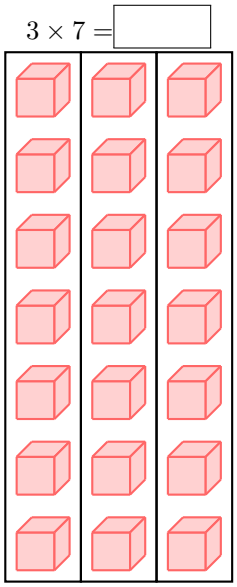
Ex 6:

$5 \times 3 =$ ☐



Ex 7:

$3 \times 7 =$ ☐



A.2 FINDING THE REPEATED ADDITIONS

Ex 8:

$5 + 5 + 5 =$ ☐ $\times 5$

Ex 9:

$2 + 2 + 2 + 2 =$ ☐ $\times 2$

Ex 10:

$3 + 3 + 3 =$ ☐ $\times 3$

Ex 11:

$9 + 9 + 9 + 9 + 9 =$ ☐ $\times 9$

B IN NUMBER LINE

B.1 CALCULATING MULTIPLICATIONS USING NUMBER LINE

Ex 12:

$3 \times 2 =$ ☐

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ex 13:

$2 \times 5 =$ ☐

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ex 14:

$3 \times 6 =$ ☐

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ex 15:

$2 \times 7 =$ ☐

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ex 16:

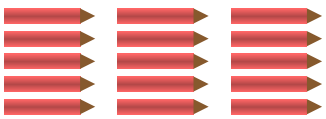
$4 \times 5 =$ ☐

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

C REPRESENTATION OF MULTIPLICATION IN WORD PROBLEMS

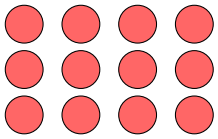
C.1 SOLVING REAL-WORLD PROBLEMS WITH DRAWING

Ex 17: Hugo has three boxes of pencils. Each box has 5 pencils.



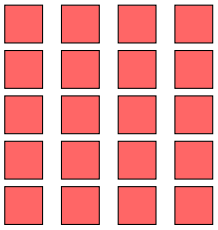
Hugo has ☐ pencils in total.

Ex 18: Su has four boxes of marbles. Each box has 3 marbles.



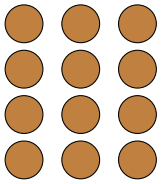
Su has ☐ marbles in total.

Ex 19: Louis has four containers of Lego bricks. Each container has 5 Lego bricks.



Louis has ☐ Lego bricks in total.

Ex 20: Alice has three jars of cookies. Each jar has 4 cookies.



Alice has ☐ cookies in total.

C.2 SOLVING REAL-WORLD PROBLEMS

Ex 21: Larbi is building toy cars for a school project. He can build 5 toy cars each day. If he works for 3 days, how many toy cars will he have in total?

Larbi will have ☐ toy cars.

Ex 22: A school is buying notebooks for its students. Each student needs 2 notebooks. If there are 6 students, how many notebooks does the school need to buy?

The school needs to buy ☐ notebooks.

Ex 23: Emma has 3 boxes of eggs. Each box contains 6 eggs. How many eggs does Emma have in total?

Emma has ☐ eggs.

Ex 24: There are 5 people. Each person has 2 eyes. How many eyes are there in total?

There are ☐ eyes.

D COMMUTATIVE

D.1 PLAYING WITH THE ORDER OF MULTIPLICATION

Ex 25:

$10 \times 2 =$ ☐

Ex 26:

$10 \times 3 =$ ☐

Ex 27:

$15 \times 2 =$ ☐

Ex 28:

$100 \times 2 =$ ☐

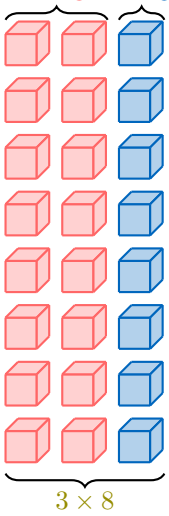
E DISTRIBUTIVE WITH ADDITION

E.1 BREAKING DOWN AT LEFT

Ex 29:

$3 \times 8 = 2 \times 8 + 1 \times 8$

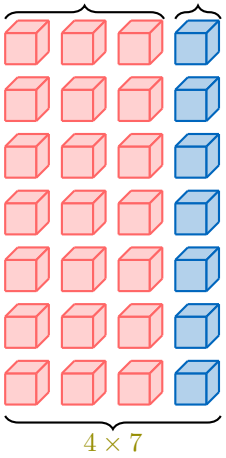
$= \square + \square$



Ex 30:

$4 \times 7 = 3 \times 7 + 1 \times 7$

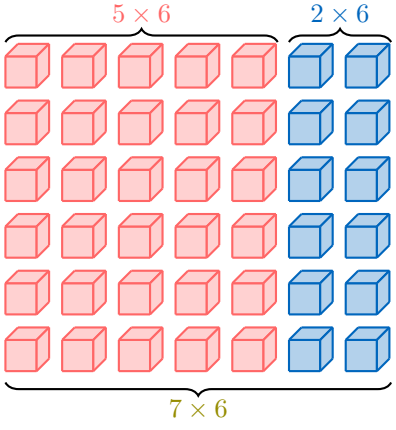
$= \square + \square$



Ex 31:

$7 \times 6 = 5 \times 6 + 2 \times 6$

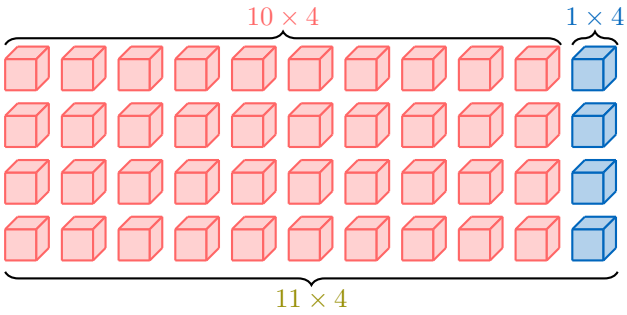
$= \square + \square$



Ex 32:

$11 \times 4 = 10 \times 4 + 1 \times 4$

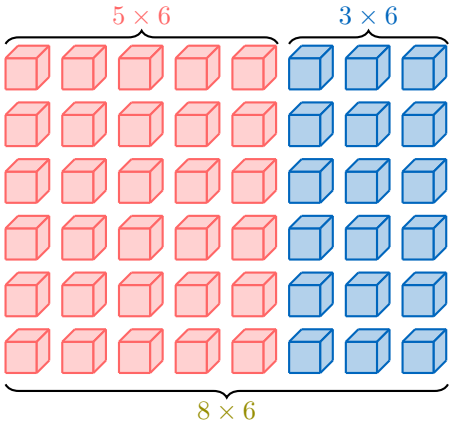
$= \square + \square$



Ex 33:

$8 \times 6 = 5 \times 6 + 3 \times 6$

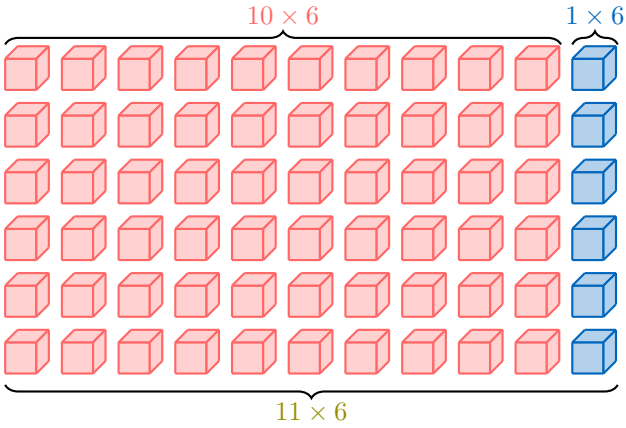
$= \square + \square$



Ex 34:

$11 \times 6 = 10 \times 6 + 1 \times 6$

$= \square + \square$

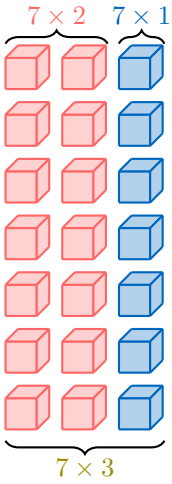


E.2 BREAKING DOWN AT RIGHT

Ex 35:

$7 \times 3 = 7 \times 2 + 7 \times 1$

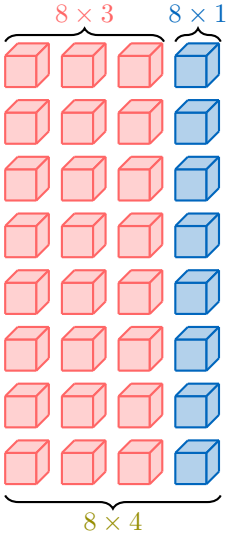
$= \square + \square$



Ex 36:

$8 \times 4 = 8 \times 3 + 8 \times 1$

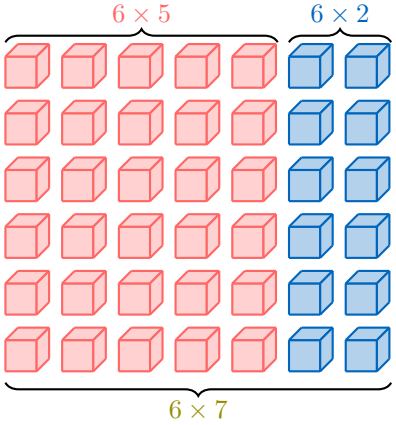
$= \square + \square$



Ex 37:

$6 \times 7 = 6 \times 5 + 6 \times 2$

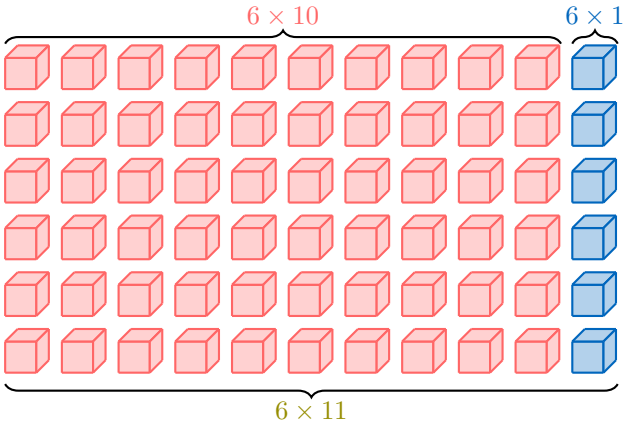
$= \square + \square$



Ex 38:

$6 \times 11 = 6 \times 10 + 6 \times 1$

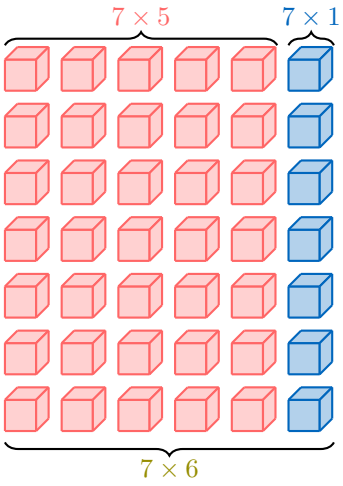
$= \square + \square$



Ex 39:

$7 \times 6 = 7 \times 5 + 7 \times 1$

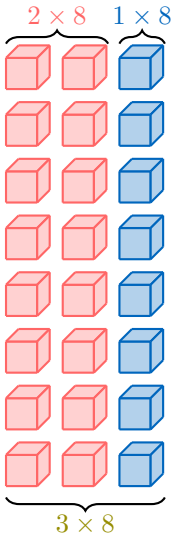
$= \square + \square$



E.3 BREAKING DOWN AT LEFT

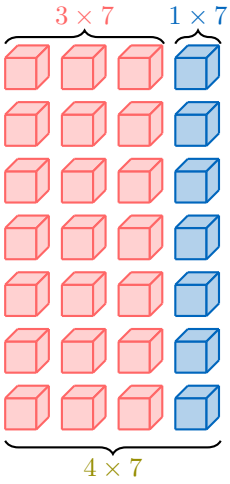
Ex 40:

$3 \times 8 = \square$

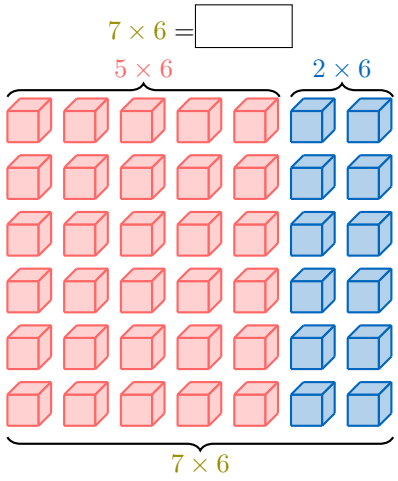


Ex 41:

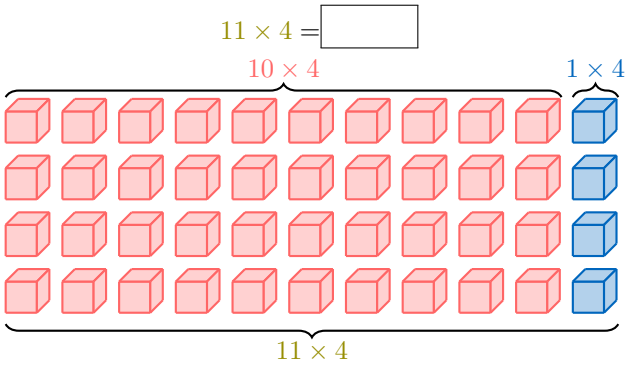
$4 \times 7 = \square$



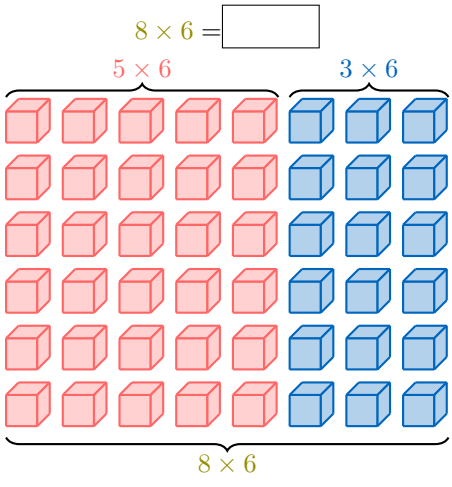
Ex 42:



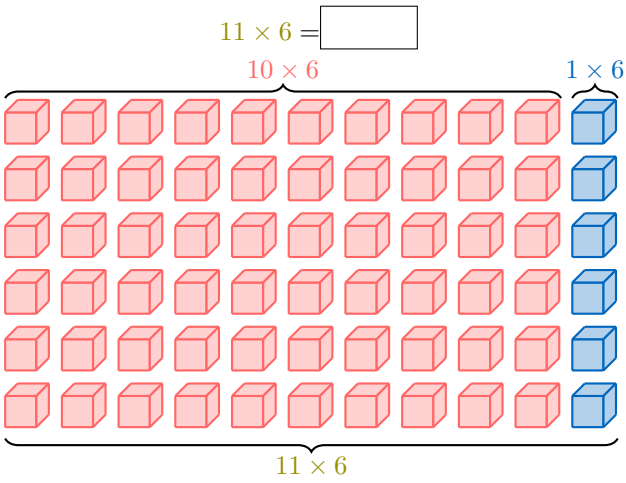
Ex 43:



Ex 44:

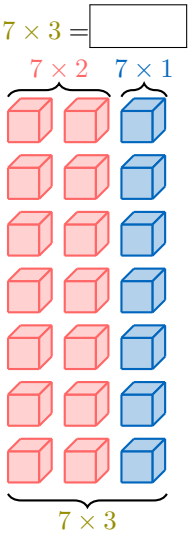


Ex 45:

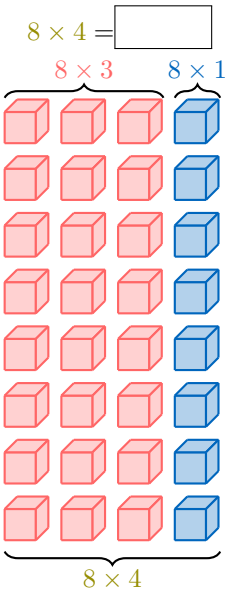


E.4 BREAKING DOWN AT RIGHT

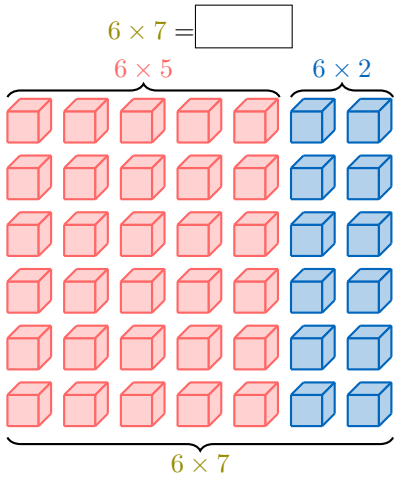
Ex 46:



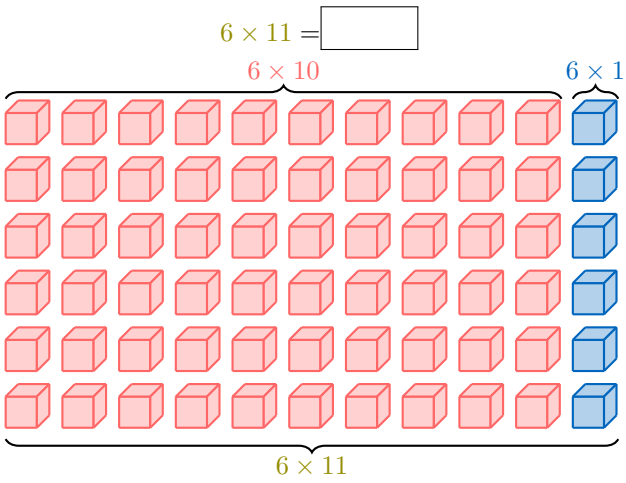
Ex 47:



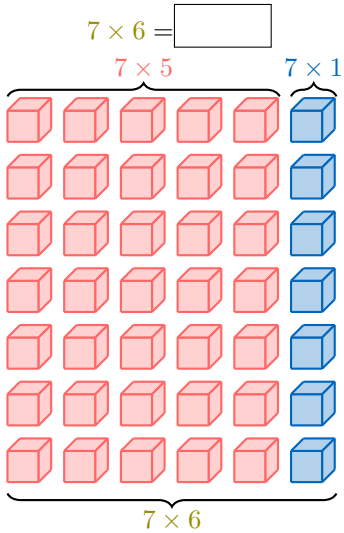
Ex 48:



Ex 49:



Ex 50:

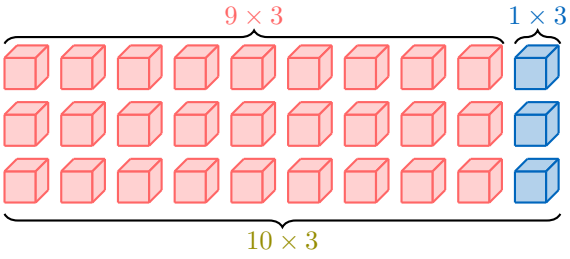


F DISTRIBUTIVE WITH SUBTRACTION

F.1 BREAKING DOWN AT LEFT

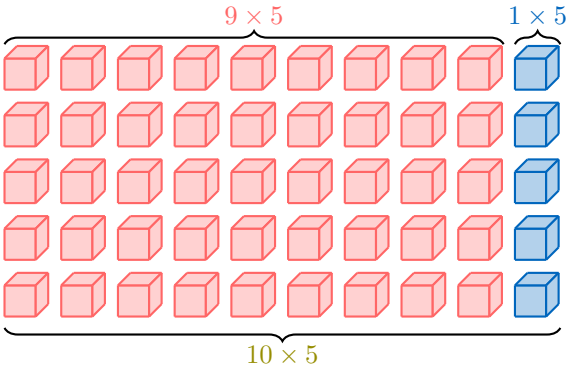
Ex 51:

$$9 \times 3 = 10 \times 3 - 1 \times 3 = \square - \square$$



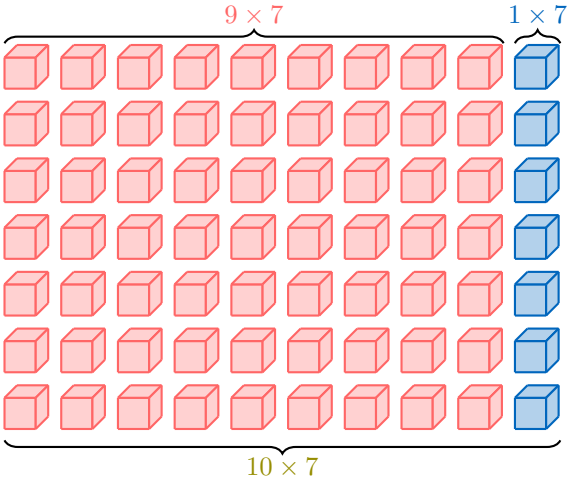
Ex 52:

$$9 \times 5 = 10 \times 5 - 1 \times 5 = \square - \square$$



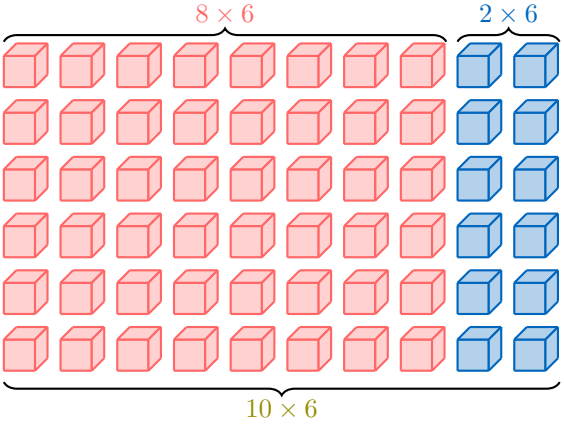
Ex 53:

$$9 \times 7 = 10 \times 7 - 1 \times 7 = \square - \square$$



Ex 54:

$$9 \times 6 = 10 \times 6 - 1 \times 6 = \square - \square$$

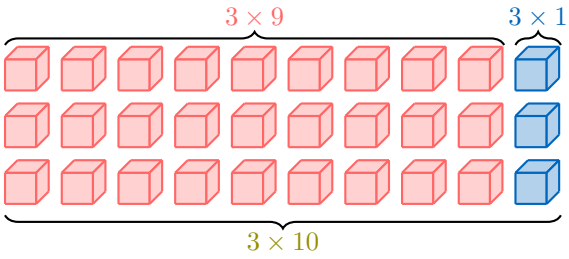


F.2 BREAKING DOWN AT RIGHT

Ex 55:

$3 \times 9 = 3 \times 10 - 3 \times 1$

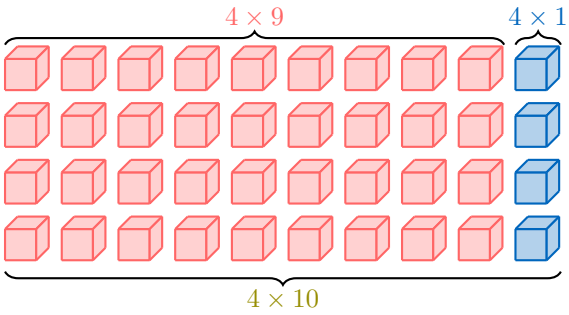
$= \square - \square$



Ex 56:

$4 \times 9 = 4 \times 10 - 4 \times 1$

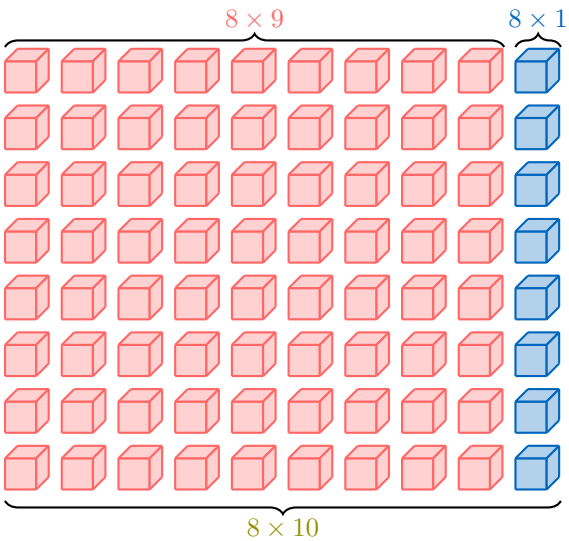
$= \square - \square$



Ex 57:

$8 \times 9 = 8 \times 10 - 8 \times 1$

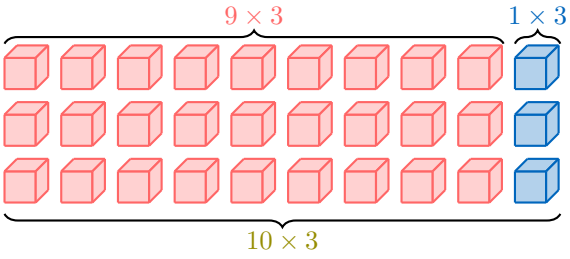
$= \square - \square$



F.3 BREAKING DOWN AT LEFT

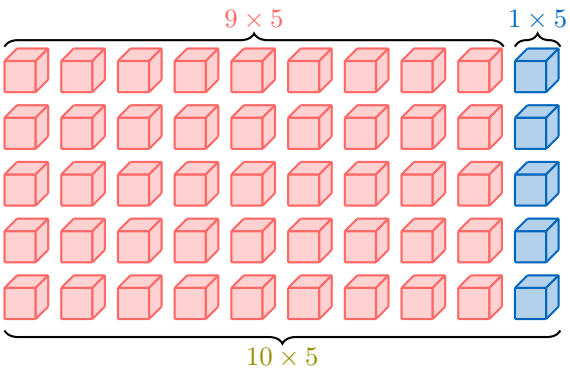
Ex 58:

$9 \times 3 = \square$



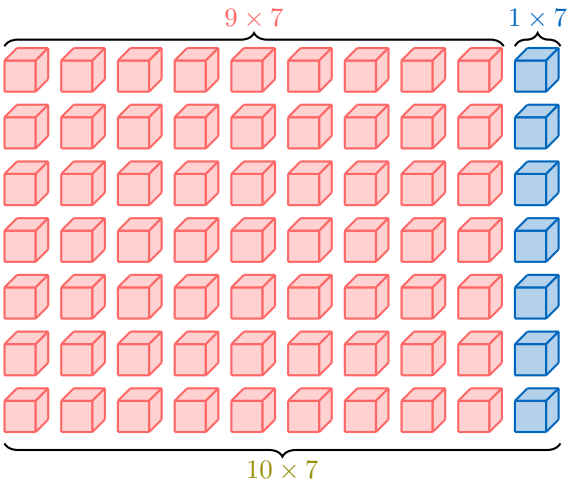
Ex 59:

$9 \times 5 = \square$



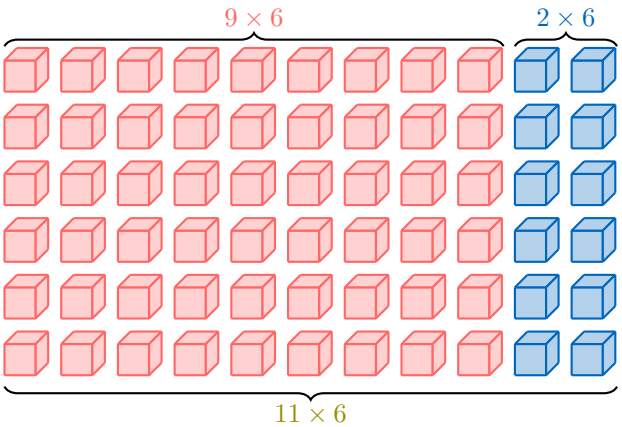
Ex 60:

$9 \times 7 = \square$



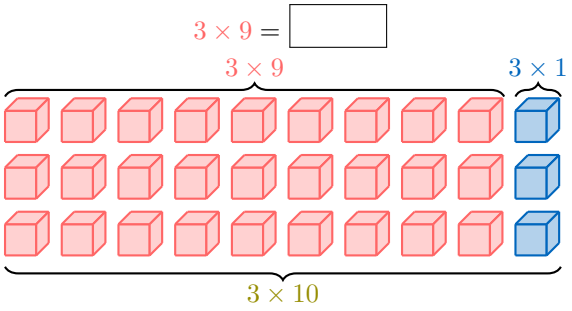
Ex 61:

$9 \times 6 = \square$

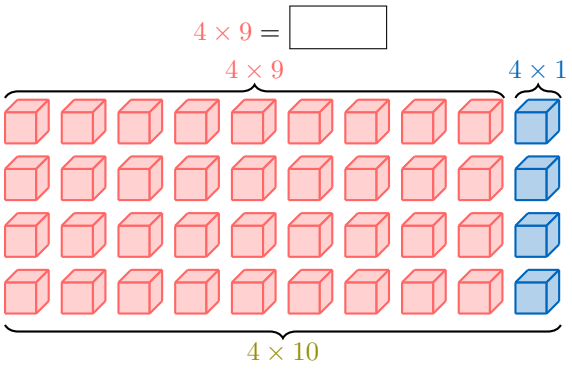
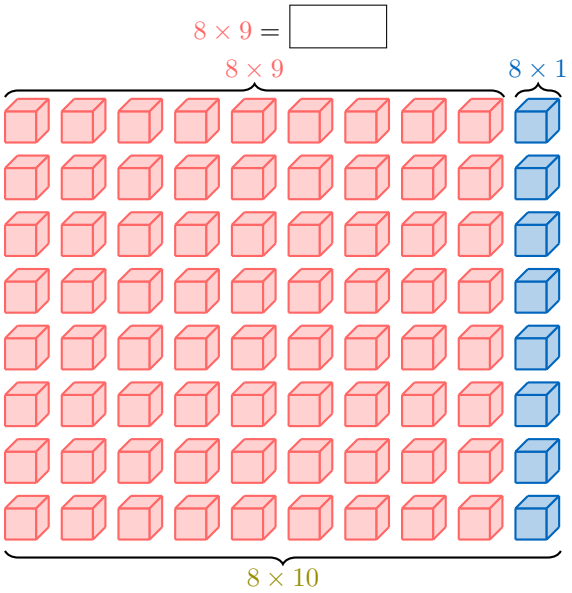


F.4 BREAKING DOWN AT RIGHT

Ex 62:



Ex 63:



Ex 64: