Helping With Math

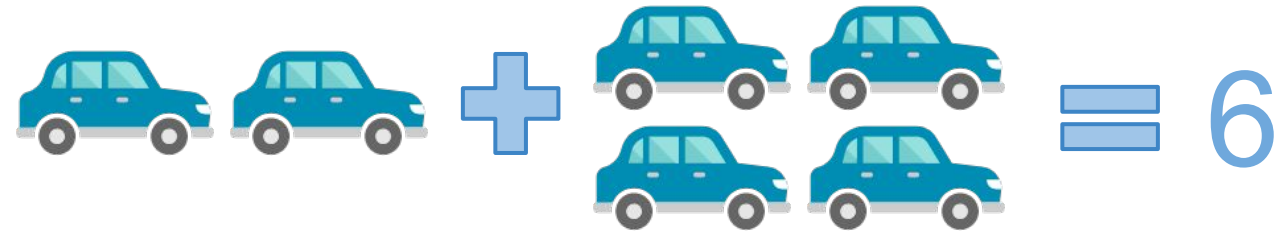
Understanding Commutative and Associative Property of Addition

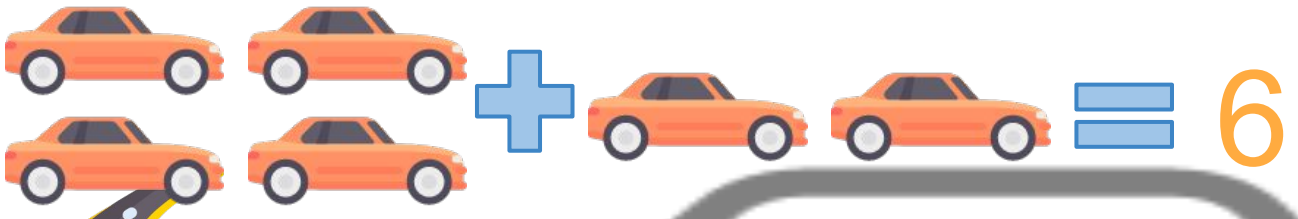
GRADE 1

There are four mathematical **properties** which involve **addition**. Two of these are ***Commutative*** and ***Associative*** Property.

Commutative Property
When we add two or more whole numbers, their sum is ***the same, regardless of the order*** of the addends.

Example: 2 + 4 = 4 + 2 = 6





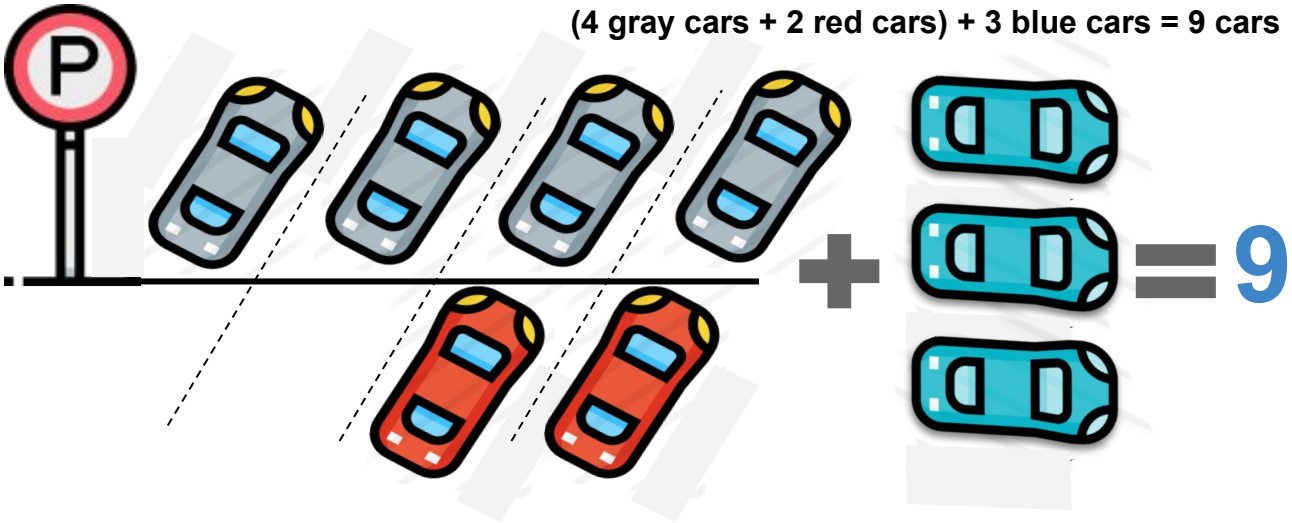
The sum of both 2 + 4 and 4 + 2 is 6. That means, we can add whole numbers in any order.

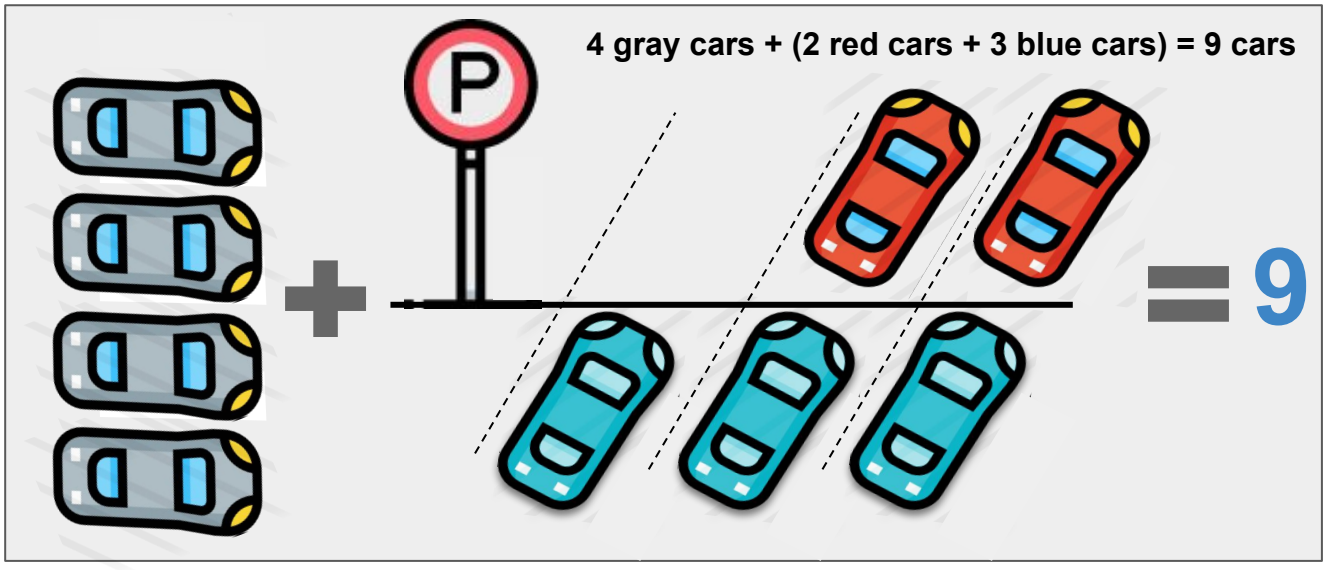
Understanding Associative Property of Addition

Associative Property

When three or more numbers are added, the sum is ***the same, regardless of the grouping*** of the addends.

For example (4 + 2) + 3 = 4 + (2 + 3)

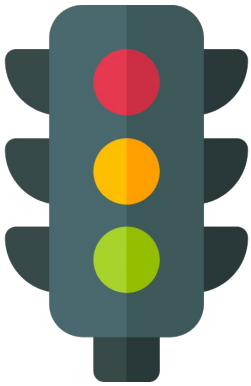




Here, the addends are 2, 4 and 3. The sum of the three numbers will remain the same, no matter how we group them.

So, (4 + 2) + 3 = 4 + (2 + 3) = 9

Stop, Look and Try this!
Encircle the correct answer.



1 Which of these is a correct example of commutative property of addition?

3 + 5 = 4 +4

3 + 5 = 5 +3

2 Which of these is a correct example of associative property of addition?

2 + 2 + 2 = 3 + 3

1 + (2 + 5) = (1 + 2) + 5

3 Which of these is a correct example of the associative property of addition?

(1 + 2 + 3) = 3 + 1 + 4

(4 + 9) + 2 = 4 + (9 + 2)

4 Which of these is a correct example of the commutative property of addition?

3 + 8 = 8 +3

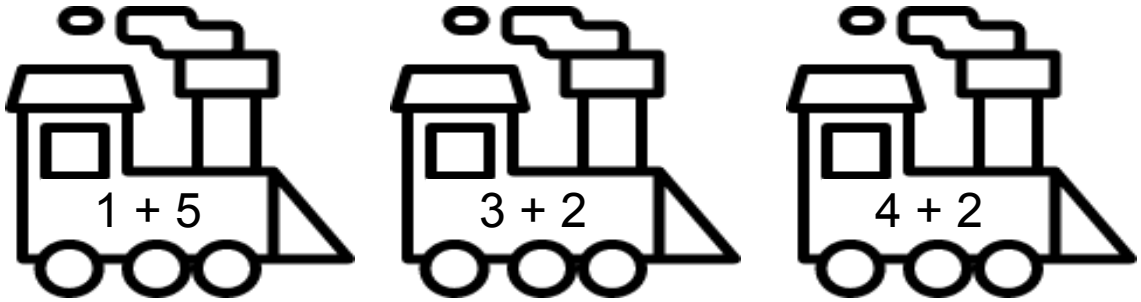
5 + 7 = 12 + 5

TABLE OF ACTIVITIES

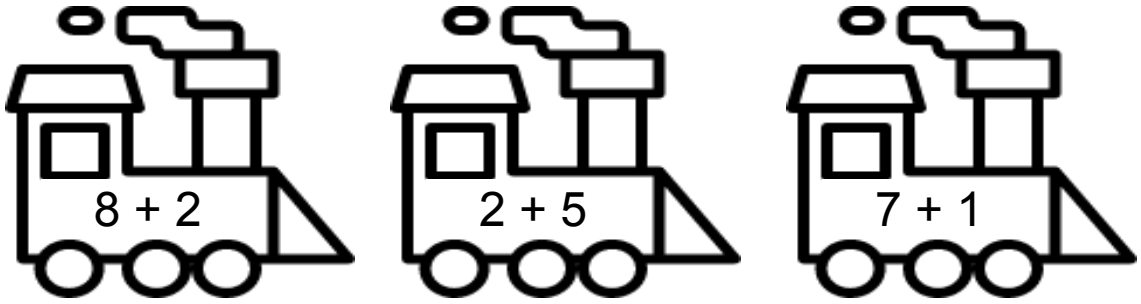
CHUG! CHUG!

Color the train that has the same sum as:

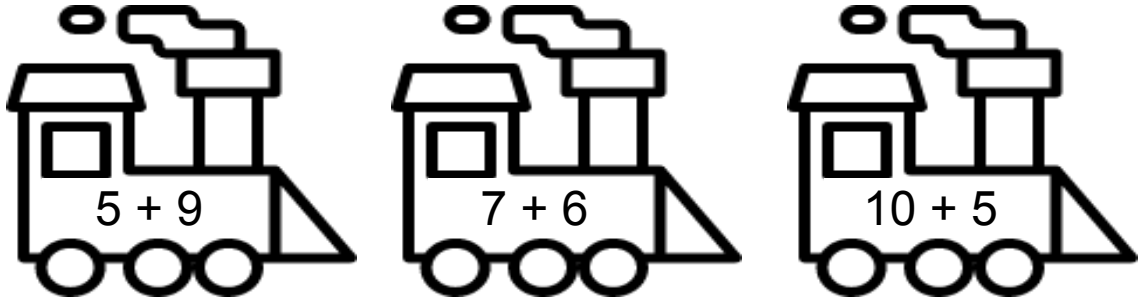
1. $2 + 3 =$



2. $1 + 7 =$

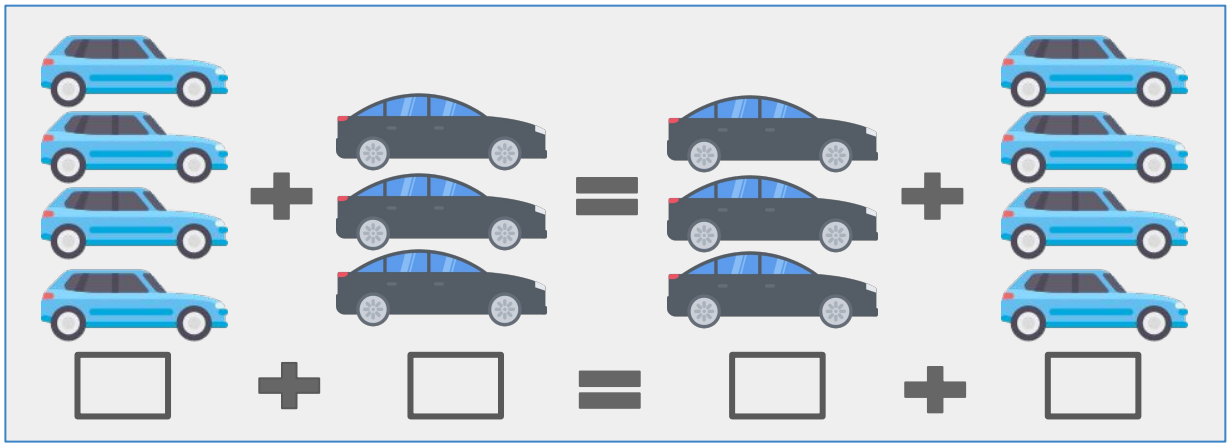


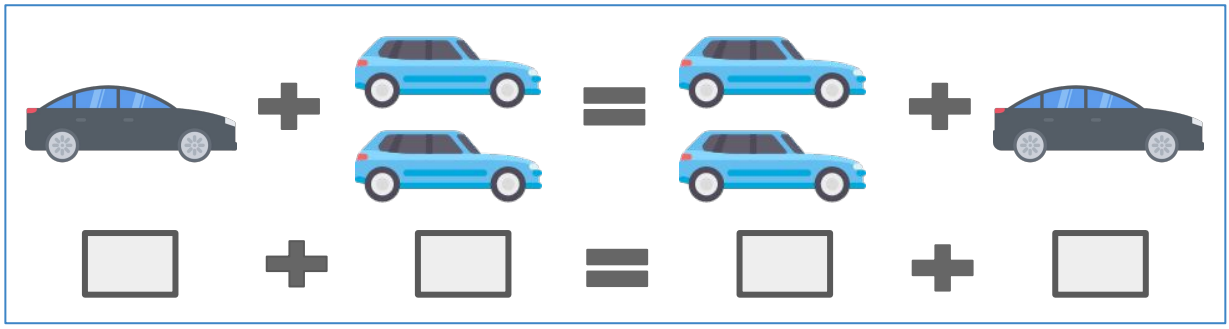
3. $9 + 5 =$

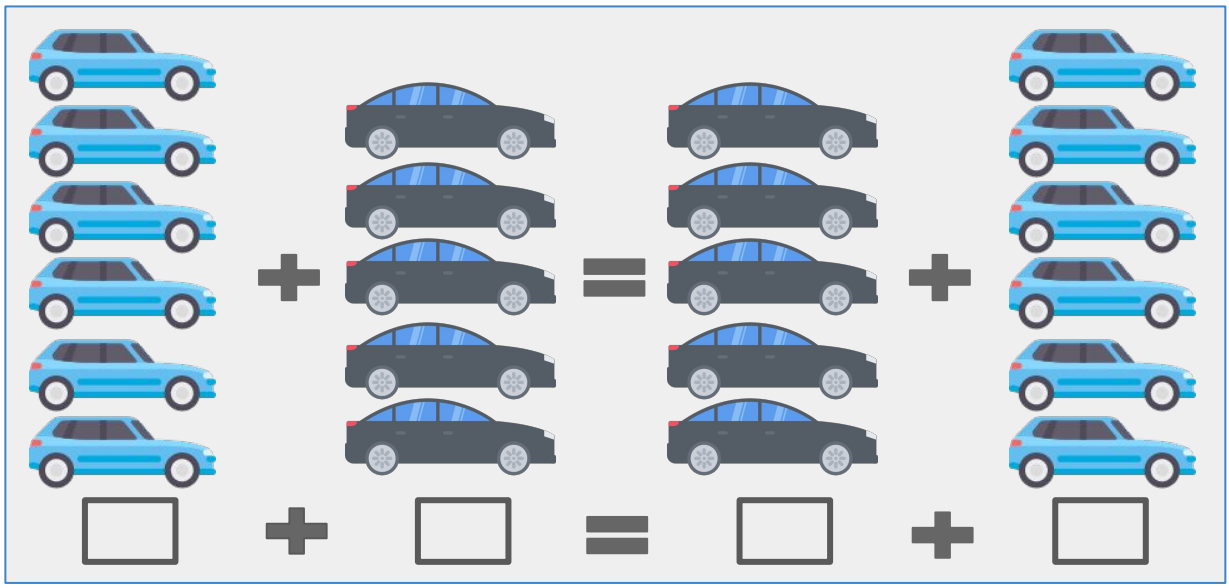


COUNTING CARS

Write the equation represented by each group of vehicles and then use the commutative property of addition to complete the equations below.

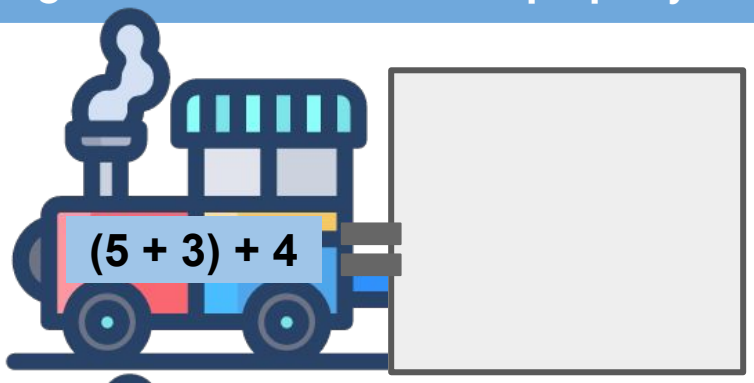


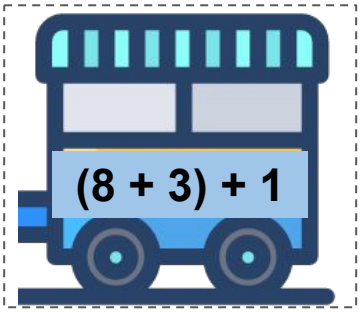


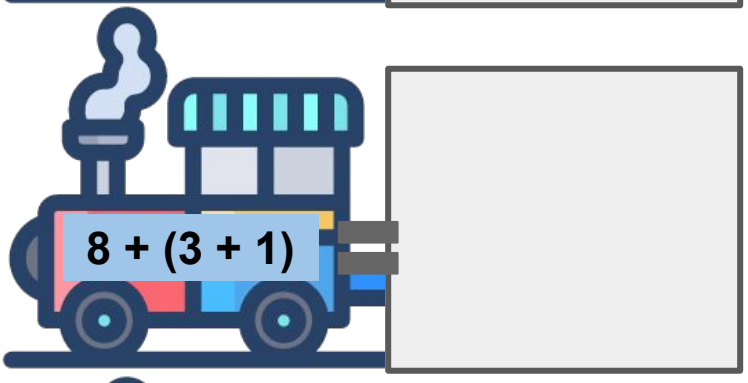


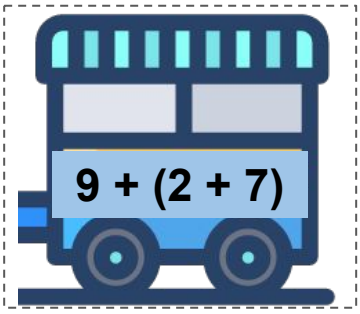
TRAIN CONNECT

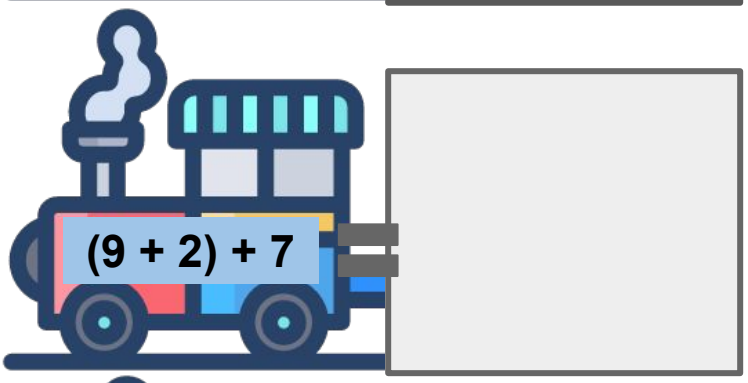
Cut out the part of the train and paste them to its corresponding engine. Use the associative property of addition to do this.

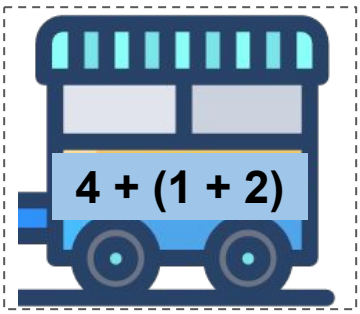


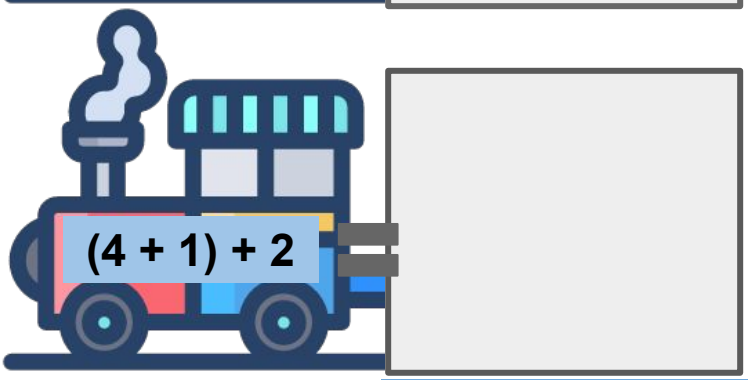


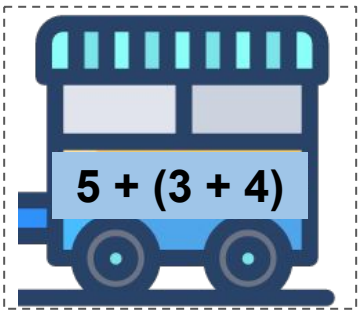






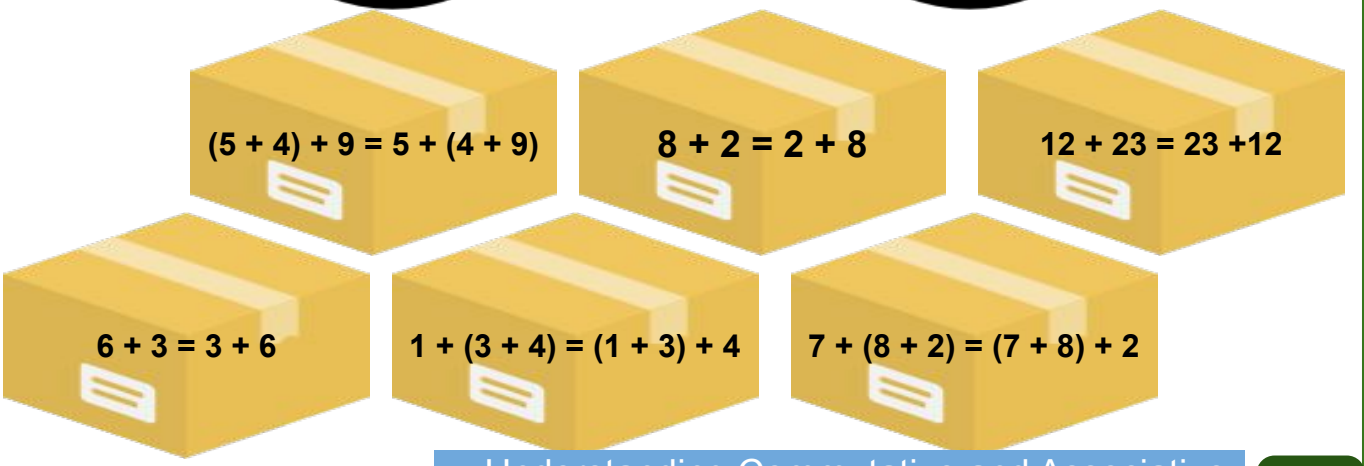






DELIVERY TRUCK

Put the boxes to the delivery trucks with label - commutative property or associative property.

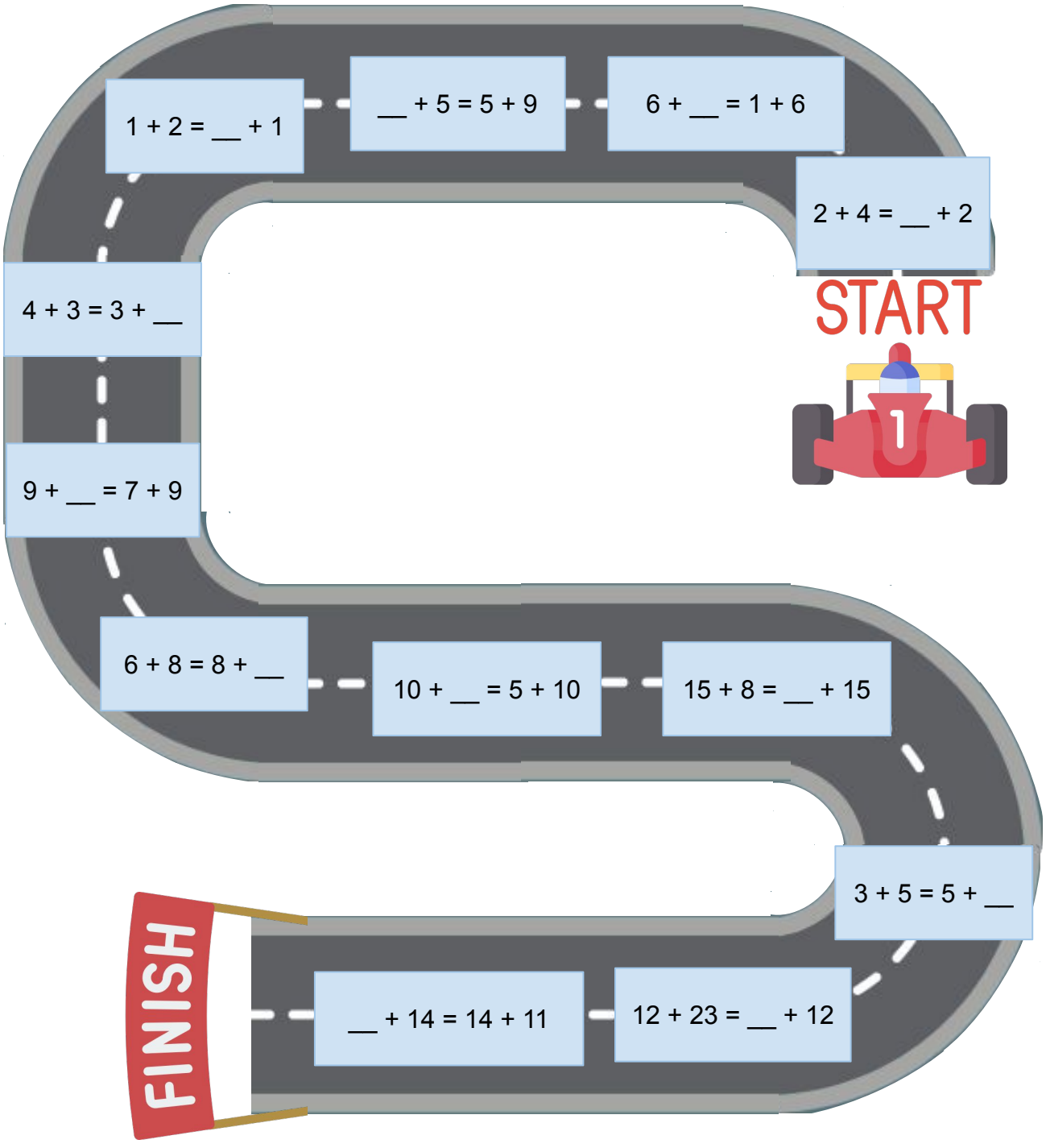


SKY'S THE LIMIT

Cross out the planes that show associative property of addition.

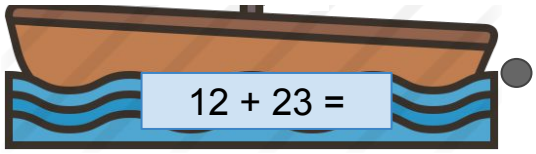
FINISH THE RACE

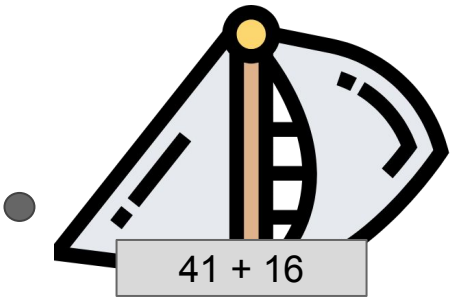
Finish the race by completing the missing number using commutative property of addition.

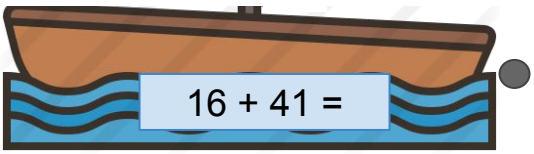


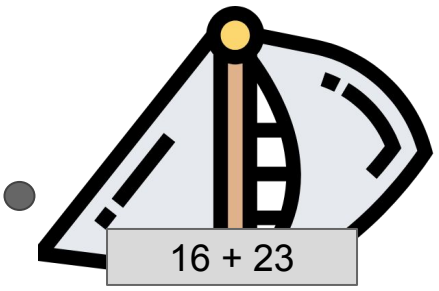
SAILING BOAT

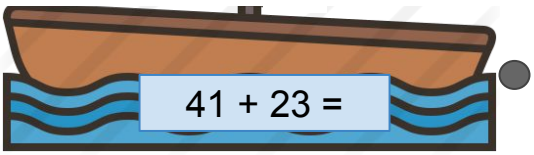
Match the boat to its corresponding sail to present the use of commutative property of addition.

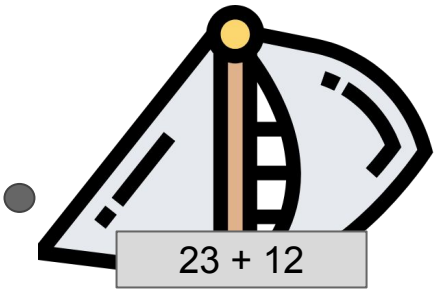


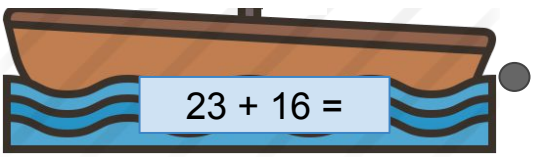


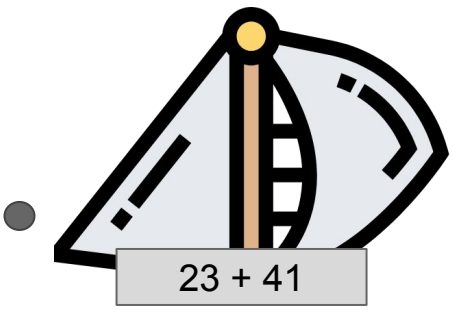






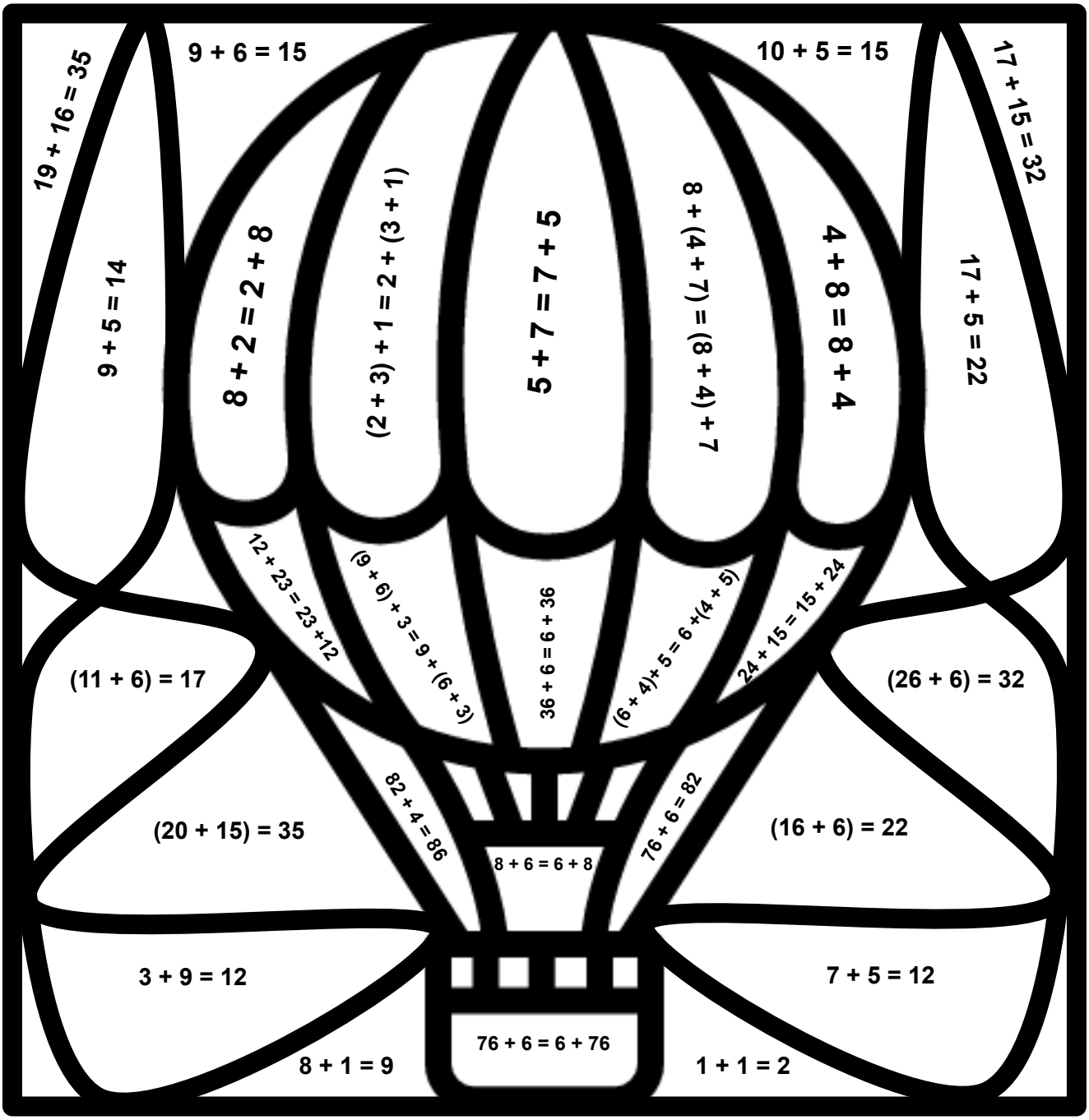






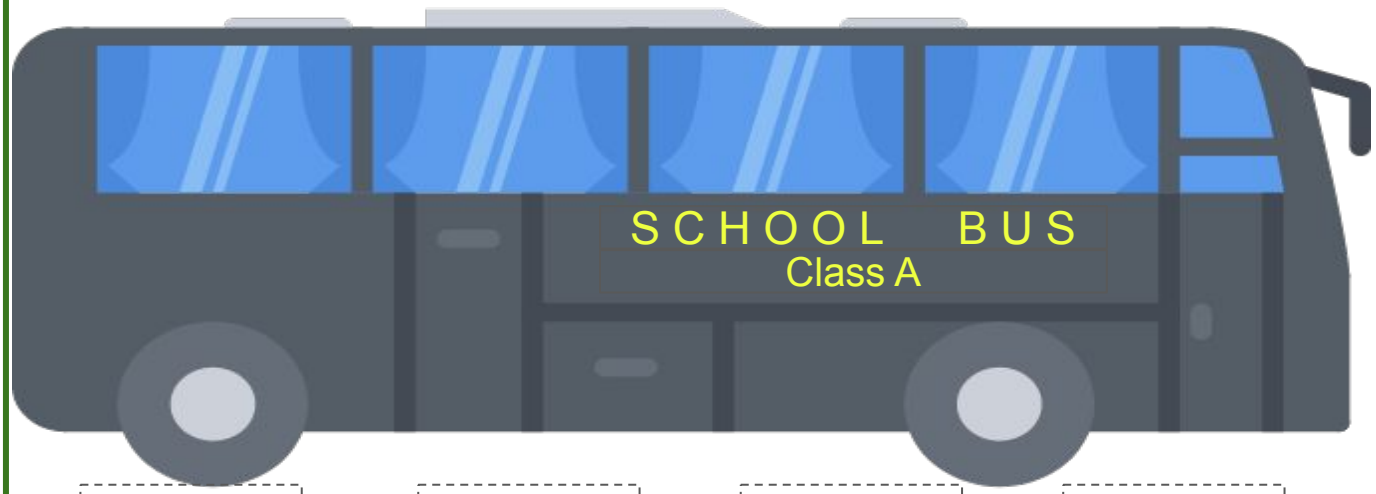
FLY HIGH

Color the equation that shows commutative property with blue and associative property gray. Find out what figure you formed.



SCHOOL BUS

Cut the students and paste them to the window of the school bus where they belong. Class A is Associative Property and Class B is Commutative Property.



12+6=6+12

1+(6+3)=(1+6)+3

(9+1)+1=9+(1+1)

7+9=9+7

(3+1)+1=3+(1+1)

1+12=12+1

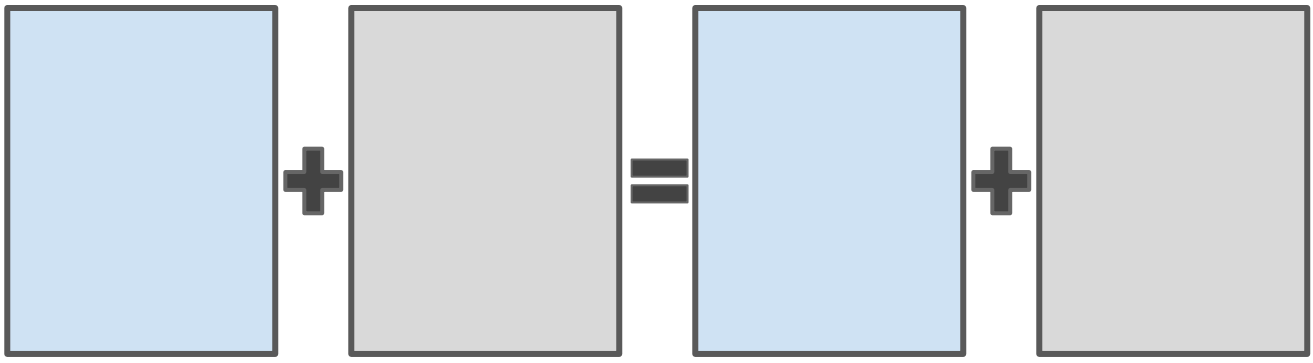
8+3=3+8

6+(7+1)=(6+7)+1

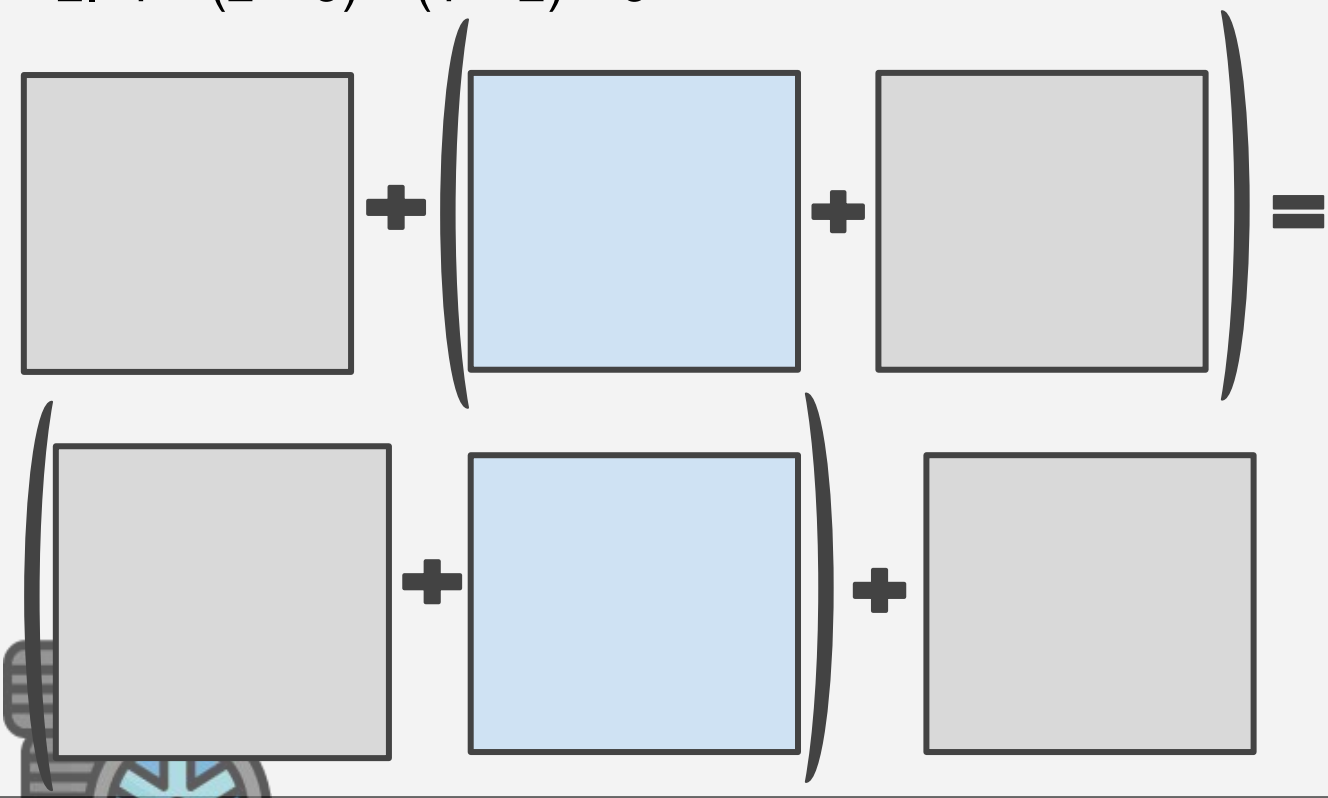
DRAW YOUR WHEEL

Draw a car wheel  **to represent the equation.**

1. $2 + 1 = 1 + 2$



2. $1 + (2 + 3) = (1 + 2) + 3$



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