MY MATH BOOK

Back
to school
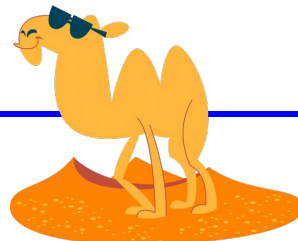
WELCOME TO MY CLASS !

ARE YOU READY FOR THIS YEAR ?

GO

GRADE 6 - GRADE 7 - GRADE 8

Riddle #1 : Glass half filled

You have a glass in your hands that is about half full. You want to know precisely if the glass is exactly half full, a little more or a little less. You have no tool to measure, only the glass of water. How to do ?

Note : the glass is a straight cylinder.

Riddle #2 : Camels and dromedaries

My 5 camels drink 5 carboys of water in 5 days. My 7 camels drink 7 bottles of water in 7 days. But who drinks the most ? A camel or a dromedary ?

Riddle #3 : Vacations

Chad talks about his holidays :

"There were 11 days of rain; during these 11 days, when it rained in the morning, it was sunny in the afternoon and if it rained in the afternoon, it was sunny in the morning."

In total, this little boy had 9 mornings and 12 afternoons without rain. Can you find how many vacations days Chad had ?

Riddle #4 : lie or truth

Michel lies on Fridays, Saturdays and Sundays. Every other day he tells the truth. Jasmine lies on Tuesdays, Wednesdays and Thursdays. Every other day, she's honest. What day is it when Michel and Jasmine both say "yesterday I was lying" ?

Riddle #5 : Mathematics and physics tests

A class consists of 12 students. They were all questioned in mathematics and physics. We know that :

– 7 students passed in physics and 9 failed in mathematics ;

– no student who failed in physics passed in mathematics.

How many students have succeeded in physics but not in mathematics ?

Riddle #6 : The Amazing Race

During the final duel, the 2 candidates Lauren and Thomas had the mission to solve an equation which is composed of coffee beans, characters and amulets.
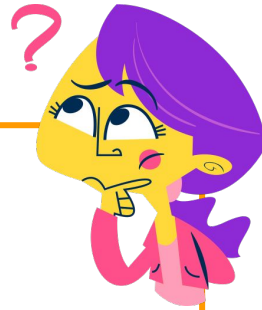
What is the result of the last equation ?

🫘 + 🫘 + 🫘 = 30

🫘 + 👩 + 👩 = 20

👩 + 🔵 + 🔵 = 13

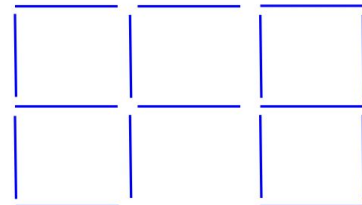🫘 + 👩 × 🔵 = ?

: **The Amazing Race**

89, 106, 113, 118, 128, ?

What is the next number in this logical sequence ?
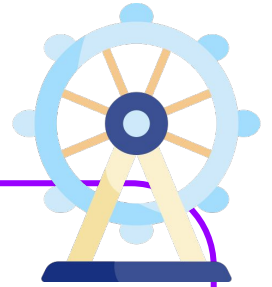
Riddle #8 : **The great wheel**

All the nacelles of a Ferris wheel are at an equal distance from each other.

They are numbered in order. When gondola 25 is at the bottom to let people

up, gondola 8 is right at the top. **How many nacelles does the Ferris wheel**

have ?

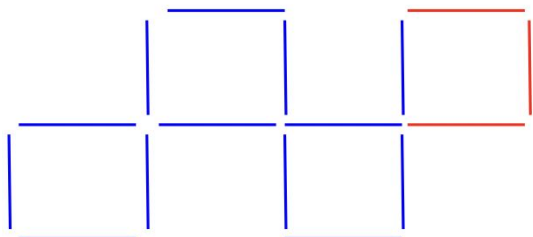Riddle #9 : **The matches**

We have 5 squares opposite. **It's up to you to make 4 of them by**

moving only 3 matches.

Precision : the large squares formed by several small ones also count.

GOOD JOB!

ANSWERS

Riddle #1	The glass must be tilted so that the water is flush with the upper edge.
Riddle #2	A camel drinks 1/5 of a bottle of water per day and a dromedary drinks 1/7 of a bottle of water per day. Camels therefore drink much more than dromedaries.
Riddle #3	There are as many mornings and afternoons as vacation days. There are 9+12 = 21 half-days without rain. There are 11 half-days with rain; therefore 21+11 = 32 half-days in total. There are. 16 days of vacation.

Riddle #4

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Michel	V	V	V	V	M	M	M
Jasmine	V	M	M	M	V	V	V

It's Friday when they both say "yesterday I was lying".

Riddle #5

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th
P	P	P	P	P	P	P	P̶	P̶	P̶	P̶	P̶
M	M	M	M̶	M̶	M̶	M̶	M̶	M̶	M̶	M̶	M̶

There are 4 students who passed physics and failed mathematics.

Riddle #6

🫘 + 👧 × 🧿 = 30

Riddle #7	The next number is 139 car 8 + 9 = 17, 89 + 17 = 106,...
Riddle #8	In total, there are 34 nacelles: 2x16 + nacelles 8 and 25.

Riddle #9