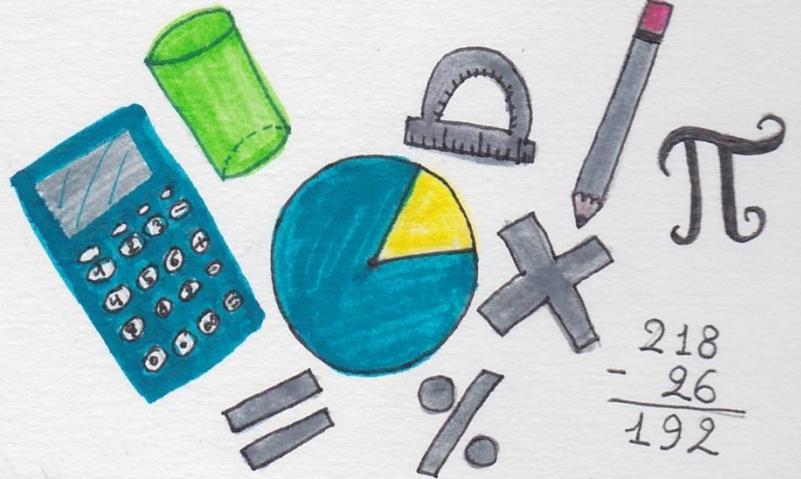


MATHS RIDDLES

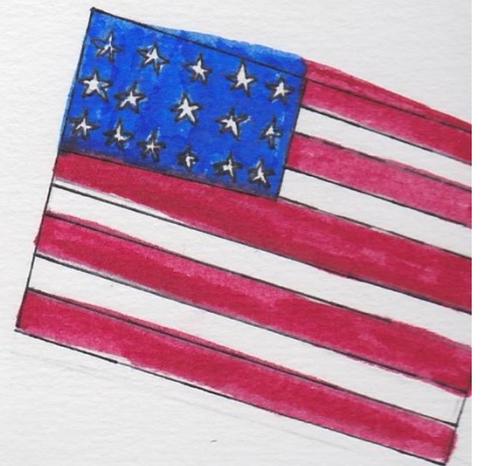
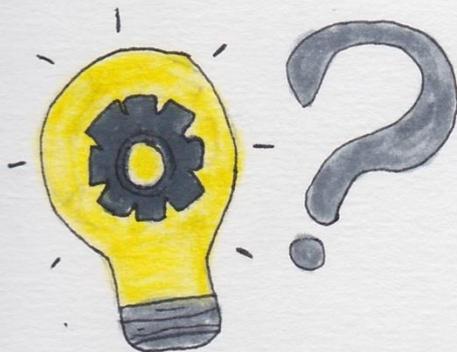


MATHS



$$\begin{array}{r} 218 \\ - 26 \\ \hline 192 \end{array}$$

C.L.L.L.?



EMILE

Livret d'énigmes mathématiques

In this riddle booklet, you will find all the riddles of the 6th C.L.I.L class of the year 2023/2024

FIRST NAMES OF THE STUDENTS OF 6⁰¹ C.L.I.L.

Aya, Tim, Nathan, Nada, Lisa, Lény, Lmy, Zoris, Mélanie, Aymeric, Nino, Flavie, Tom, Baptiste, Têben, Léna, Emmy, Yanis, Louis, Antoine, Yasmine, Zou, Jade, Robin, Clément, Romy, Ornella, Bilal.

ARE YOU GOOD AT MATHS ?



ARE YOU GOOD AT ENGLISH ?

THE PUPILS FROM THE 6^{ème} 1

**CLIL CLASS HAVE THE PLEASURE TO
SHARE WITH YOU THE MATHS RIDDLES
THEY CREATED DURING THE MATHS
AND ENGLISH CLIL CLASS IN 2023 / 2024**

**TRY TO SOLVE THEM
AND GOOD LUCK !!**



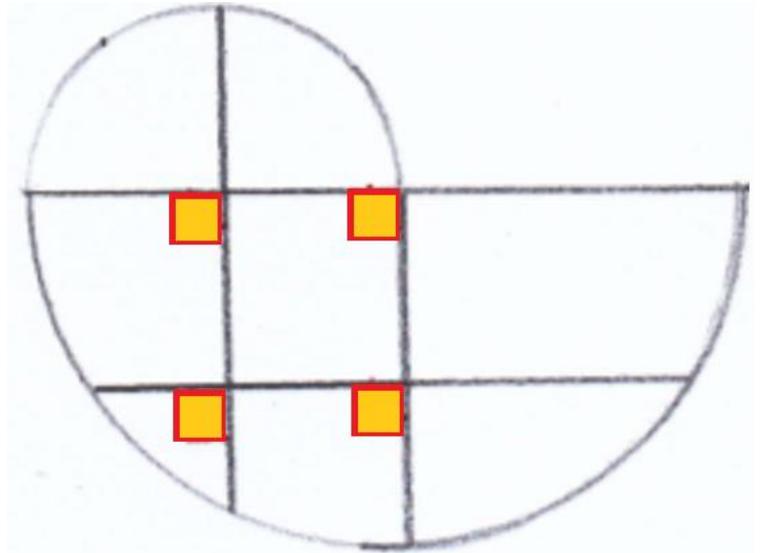
MATHS RIDDLES n° 1

BARBAGALLO Lisa : 6^{ème} 1

ARNAUD Tim : 6^{ème} 1

EASY :

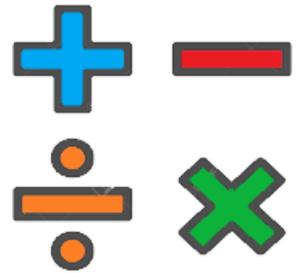
How many right angles can we code in this figure ?



MEDIUM :

We double a number and we subtract 4 then we multiply by 3 and we add 9 . The result is 75 .

What is the starting number ?



HARD :

Around the world in 80 days is a famous work by Jules Verne .

Horse-drawn cart : 518 400 seconds

Hot-air balloon : ?

Boat : 61 920 minutes

Train : 29 days



Knowing that this person travels 80 days

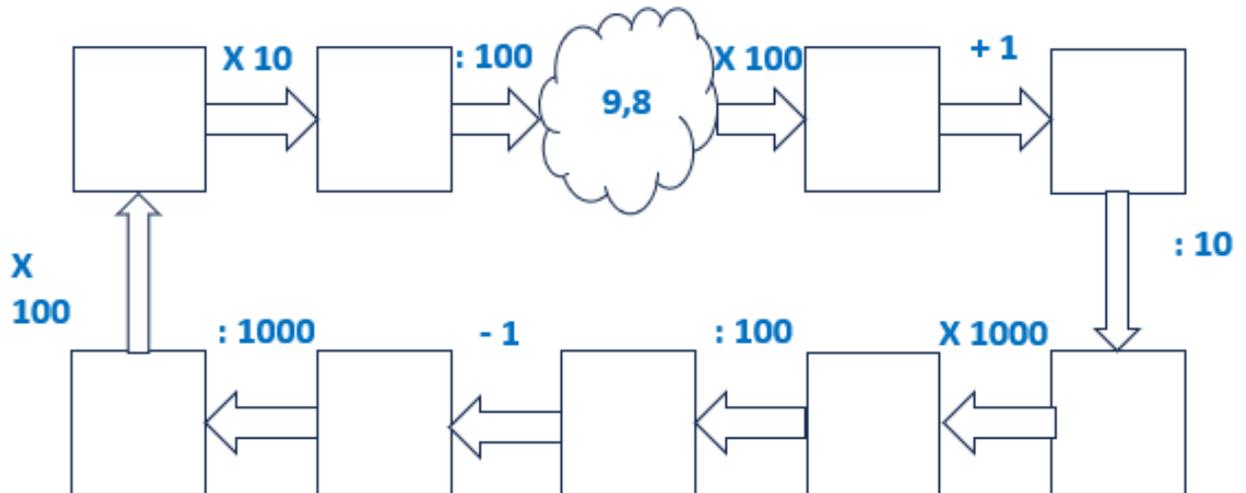
How many days will the hot-air balloon travel ?

MATHS RIDDLES n° 2

Metivier Louis 6^{ème} 1

Crouzet Loris 6^{ème} 1

***EASY** Fill in all the empty boxes in this diagram



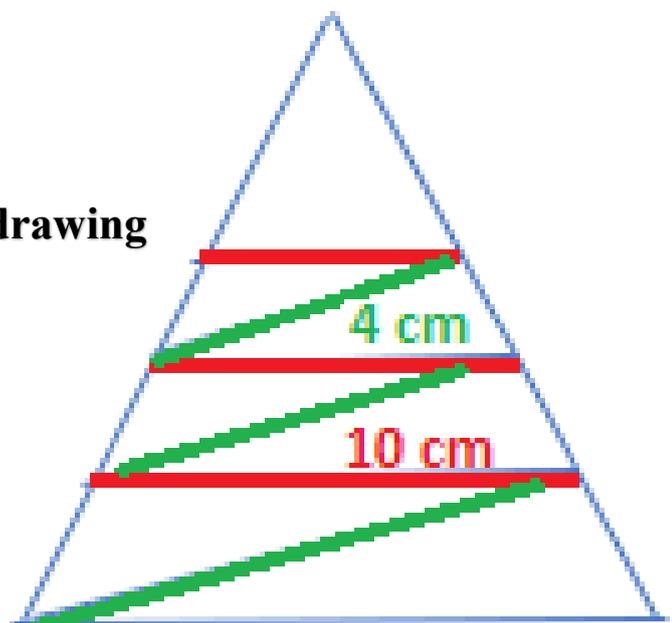
****MEDIUM**

There are 613 pupils and 25 classrooms in Marcel Chamontin Secondary School . We know that today 38 people are missing . So , if today we divide all the people in all the classrooms how many pupils will there be in each classroom ?



*****HARD**

Calculate the total length of the green and red segments of this drawing knowing that to measure the length of the green segment you must add 1,5 cm and for the red segment you must multiply by 2,5 to the shortest segment .



MATHS RIDDLES n° 3

PARIS PEREIRA Lou 6^{ème} 1

AHSEN Aya 6^{ème} 1

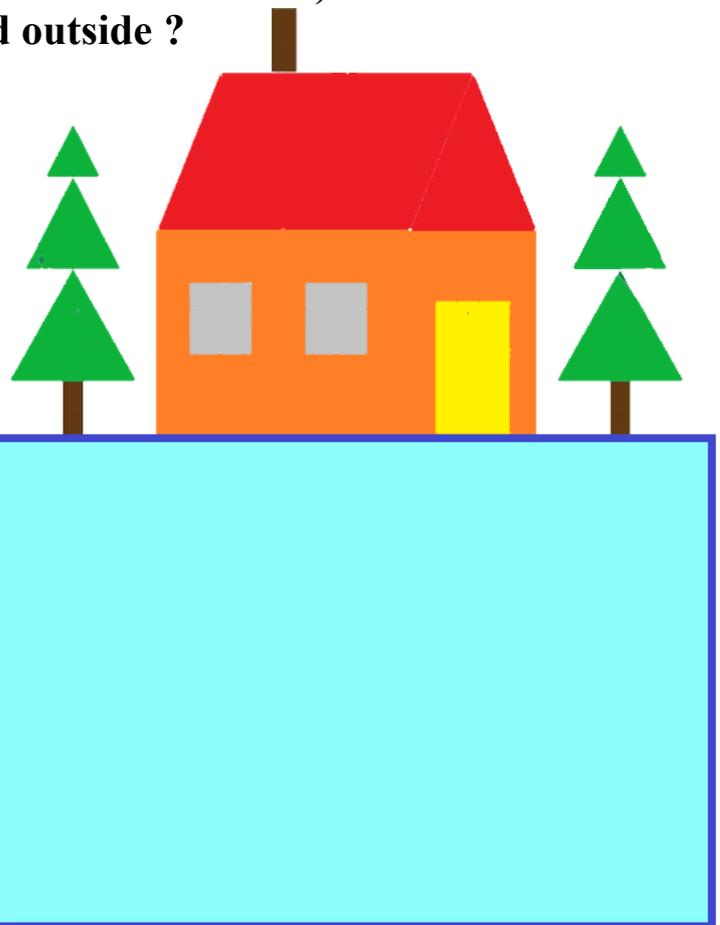
EASY: ★

In a restaurant , there is a terrace .
 Inside the restaurant there are 20 people
 and on the terrace there are 10 people ,
 2 waiters serve on the terrace
 and 3 waiters serve inside the restaurant . 4 people come out of the
 terrace and go inside the restaurant (because it is cold) .
 How many people are there inside and outside ?



MEDIUM ★★

Draw the symmetric image of
 the landscape of the house
 and the two trees in the lake



HARD: ★★★



For Halloween , a family decides
 to make a maze . Find your way
 to the exit knowing that
to go :



* Right you have to divide by two

* To the top you have to
 multiply by two

* Left you need to subtract 1,5

* Down you have to add 0,5

1,2	3	0,1	1,8	0,9	1,4	0,7	2,5	EXIT
60	2,4	65	0,9	1,4	0,7	1,2	0,6	
32	1,8	0,9	0,45	2,5	1	108	50	
84	0,9	2,4	8,5	10	34	6,2	24	
0,68	56	1,2	2,7	4,2	2	8,8	2024	
				ENTER				

MATHS RIDDLES n° 4

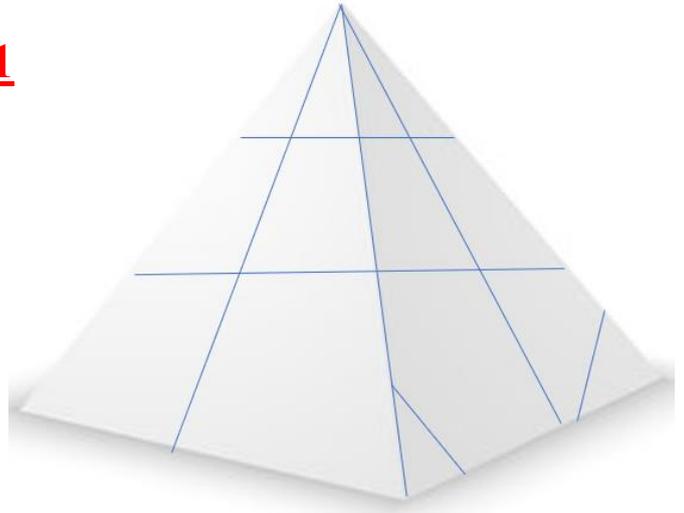
NOEL ANTOINE 6^{ème}1

LASSALE-BOIRON EMMY 6^{ème}1



EASY

HOW MANY TRIANGLES
CAN YOU SEE IN THIS PYRAMID ?
(WITHOUT COUNTING
THE HIDDEN FACES)



MEDIUM

IN A MEADOW , THERE ARE 10 COWS . THE MILK OF EACH COW
GIVES 4 CHEESES . EVERY CHEESE IS CUT INTO 6 PIECES .
ANOTHER FARMER BUYS 3 COWS . THE FARMER WHO HAS 7 COWS
NOW WANTS TO RAISE HIS PRODUCTION TO 205 PIECES OF
CHEESE EACH DAY .
WILL HE HAVE ENOUGH PIECES OF CHEESE
TO REACH HIS GOAL ?
AND HOW MANY COWS WILL HE HAVE
TO BUY TO RAISE HIS PRODUCTION TO 205 PIECES OF CHEESE ?



HARD

IN A HOTEL , THERE ARE 372 BEDROOMS
AMONG WHICH 48 ARE SUITES .

EACH BEDROOM HAS
2 SHEETS AND 1 DUVET COVER .

EACH SUITE HAS
3 SHEETS AND 1 DUVET COVER .



IF 1 SHEET COSTS 3 \$ TO BE CLEANED AND EACH DUVET COVER
COSTS 5 \$ TO BE CLEANED , HOW MUCH DOES THE MANAGER OF
THE HOTEL HAVE TO PAY EVERY DAY FOR THE CLEANING OF THE
SHEETS AND DUVET COVERS ALTOGETHER ?

MATHS RIDDLES n° 5

RAMOS CLEMENT 6^{ème} 1
DEPAULE AYMERIC 6^{ème} 1

EASY :

Mathieu runs every morning for thirty minutes except for on days when he has school when he runs for fifteen minutes .

He goes to school on Monday , Tuesday , Thursday and Friday .

How many hours will he have run in two weeks ?



AVERAGE :

Miss Pistouille baked one hundred and seven cookies .

She invited the neighbours to come for tea time .

They ate nine cookies .

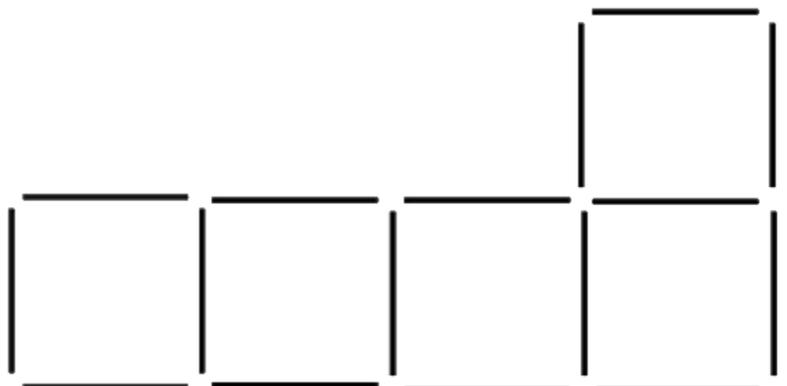
The cat stole one cookie , the grand-mother baked eleven other cookies and brought them for tea . Miss Pistouille wants to share what is left into equal parts between her four children .



How many cookies will each child have . Will there be any cookies left ?

HARD :

You can see five squares :



You have to move three matchsticks to get four squares .

MATHS RIDDLES n° 6

TIKEN KAMARA 6^{ème} 1

ORNELLA SORIANO 6^{ème} 1

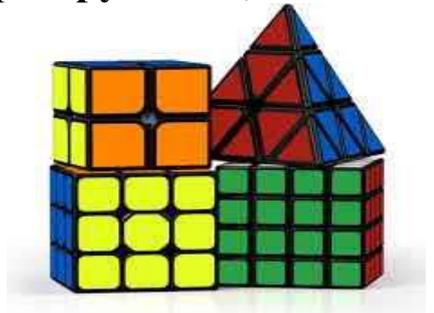
EASY *:

Benjamin cooks 6 chops , his dog eats half of them and his brother eats $\frac{1}{3}$ of what's left .
How many chops are left ?



AVERAGE **::

A child plays with wooden solids on a carpet , he drops 1 pyramid , 2 squares and 1 rectangular prism .
His sister , who is passing by , has fun counting the edges .
How many edges are in total ?



DIFFICULT***:

In a college in Cambridge , there are 657 students , $\frac{2}{3}$ of the students eat at the canteen . The meal costs 3 £ for each half-boarder .
 $\frac{1}{6}$ of the students who eat at the canteen also have lunch at the canteen on Wednesdays for the sport club , their meal costs 2 £ .
On Monday ,Tuesday ,Thursday and Friday , there are 108 absents among which $\frac{1}{4}$ of the students who are half-boarders .

Calculate the total amount paid by the students this week for the canteen ?



MATHS RIDDLES n° 7

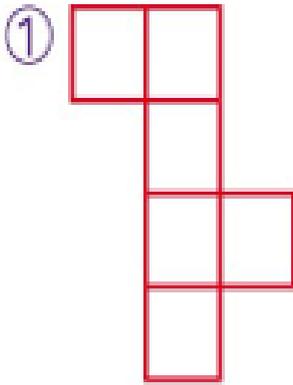
FICHEFEUX BRITO NINO 6^{ème} 1

DENY MAIYA MELANIE 6^{ème} 1

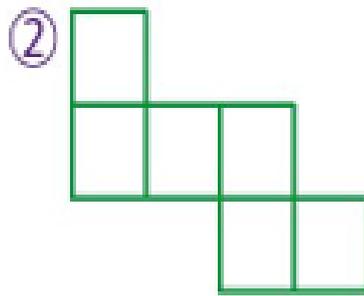
EASY ★

Three pupils Chloé , James and Jonathan made three patterns of solids . Which pupil did not make a pattern for a cube ?

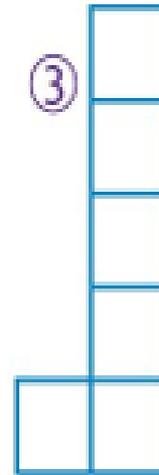
Chloé



James



Jonathan



MEDIUM ★★

A person goes to a paint ball place .
There are two possible options .
The first one has 40 balls allowing you
to play for 25 minutes .
The second one has 21 balls every 15 min .
Which one of these two options allows
to have the maximum number of balls for the same duration ?



HARD ★★★

Zushia and her family go on a trip to Hawaïi . They leave the airport
of Paris at 13.50 . They arrive at Hawaïi at 12.50 (local hour) on the
next day . We know that Paris is 11 hours ahead from Hawaïi .

A) What time will the airplane (French hour)
land in Hawaïi ?

B) How long did the trip last ?



MATHS RIDDLES n° 8



Batiste Humeau 6^{ème} 1

Jade Perbet 6^{ème} 1

Easy*

Find the hidden message knowing that you must subtract 3 to each of the following numbers :

13 / 24 / 15 / 12 / 24 / 22 6 / 4 / 8 / 22 / 4 / 21

A → 1	B → 2	C → 3	D → 4	E → 5
F → 6	G → 7	H → 8	I → 9	J → 10
K → 11	L → 12	M → 13	N → 14	O → 15
P → 16	Q → 17	R → 18	S → 19	T → 20
U → 21	V → 22	W → 23	X → 24	Y → 25
Z → 26				

Medium**

Colour in the minimum number of boxes in order to get a symmetrical figure on each side of the line

(d) (axe de symétrie)

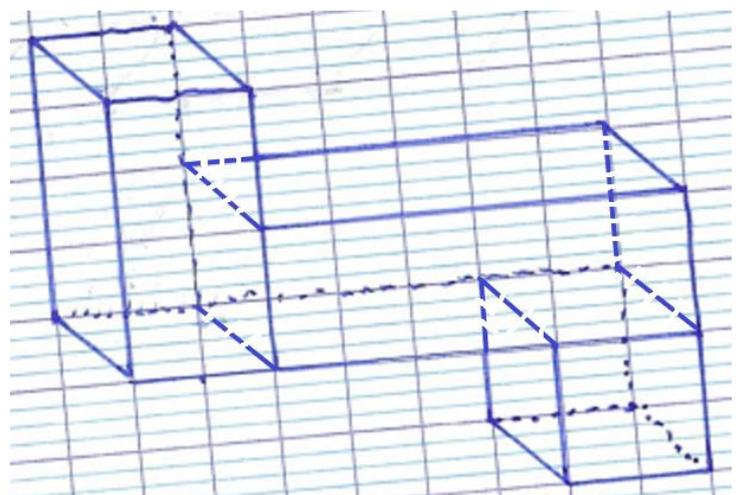
Hard***

We consider the following figure

⊗ How many vertex are there ?

⊗ How many faces are there ?

⚠ It could be necessary to take into account the hidden parts



MATHS RIDDLES n° 9

COUSIN EMY 6^{ème} 1

ROBIN PHILIPPE 6^{ème} 1

EASY : *

You are playing fortnite and you are level 43
(1 level equals 80 000 EXP)

At the end of your game your are level 46
Have many EXP did you win in your game ?



MEDIUM : **

In a farm there are 85 cows .

In January two lorries full of cows came . (in the lorry there are 26 cows) .

11 cows were sold to another farmer .

The farmer wants to have the same number
of cows in each of his two fields .

How many cows will there be in each field ?



HARD : ***



	QUANTITY	UNIT PRICE	TOTAL
CAP	84	.....	756 €
SHOES	.....	48 €	288 €
SHIRT	21	.....	273 €
TRACKSUIT	.....	35 €	.....
PAIRS OF SOCKS	.....	4 €	72 €
		TOTAL	1 634 €

Fill in the grid above

MATHS RIDDLES n° 10

Yanis Maache 6^{ème} 1

Flavie Garcia 6^{ème} 1



EASY

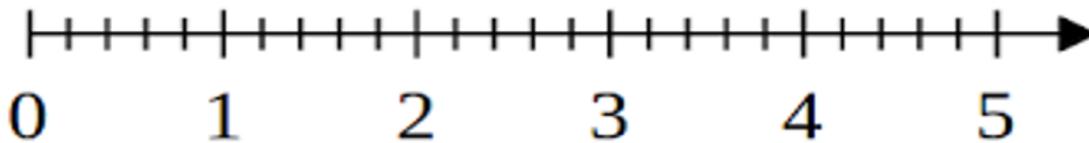
A woman goes to the supermarket .
She buys 2 big apples which cost 1 \$ each ,
3 bottles of fruit juice which cost 3 \$ each ,
5 pens which cost 2 \$ each .



Will she have enough money if she pays with a 20 \$ note ?



MEDIUM



- 1) Put the letter E at 2,6
- 2) Put the letter T at 4,8
- 3) Put the letter R at 1,7
- 4) Put the letter A at 3,5

Q1 : Which letter is missing to find a famous english word ?

Q2 : Put the missing letter on the graduation , knowing that it is the sixth of the sum of 4 and 2 .



HARD

You must use only once each of the following figures :

5 , 9 , 3 , 8 and only once each

of the 4 following operations :

+ , - , × , ÷

Write the calculations to get 7 .



MATHS RIDDLES n° 11

NADA BAADI 6^{ème} 1

LENY BUE 6^{ème} 1

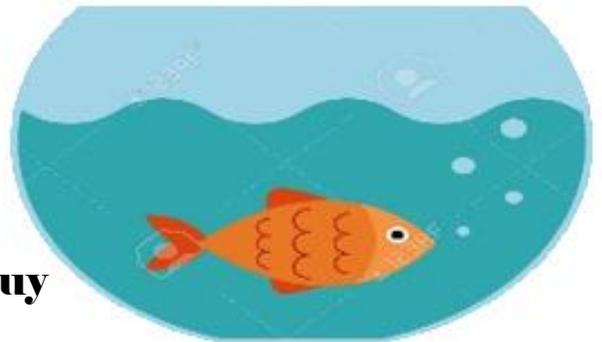
Easy: ★

Complete this operation :

$$\begin{array}{r} 789 \\ \times 36 \\ \hline 4 _ _ 4 \\ + 2 _ 6 _ 0 \\ \hline = 2 _ _ 0 4 \end{array}$$

Medium: ★ ★

**Bilal buys 9 goldfish .
He puts them into an aquarium
but 3 died of old age ,
a cat ate 2 of them and 1 jumped
out the aquarium . Bilal decides to buy
the double number of the dead fish .
How many goldfish will there be in the aquarium ?**



Hard: ★ ★ ★

For his birthday, Tom buys 2 bags of dragibus each containing 25 dragibus , 3 little bags of crocodiles each containing 7 crocodiles and 1 big bag of 24 schtroumpfs . Knowing that , Tom invites 6 friends : each friend eats the same quantity of sweets and Tom gives the smallest number of sweets to his little sister Anna .

How many sweets will the 6 friends have each and how many sweets will Anna have ?



MATHS RIDDLES n° 12

Gottschalk Tom 6^{ème} 1

Kentaoui Lena 6^{ème} 1

EASY Bob bought three packets of candy .
In each packet there are 15 candies .
But Bob is greedy so he eats 3 candies
from the first packet .
Then the double from the second packet
and the triple from the 3rd packet .



How many candies are there left in each packet ?

MEDIUM

On a beach there are 64 people .
The quarter of these people
have 2 sunshades each ,
and the others have only one sunshade .

**How many sunshades
are there on the beach ?**



HARD

We choose a whole number
After we add 3 to the result
After we divide the result by a whole number
We subtract 4 to the result
After we multiply the result by a whole number
to finish we add 2



**Knowing that the starting number and the final number is 7
Find the missing numbers in this sequence of calculation ?**

MATHS RIDDLES n° 13

ROMY RIBET 6^{ème} 1
BILAL SOUSSI 6^{ème} 1

EASY



A runner runs for one hour .
In 30 minutes he runs 6 kilometers .
How long does it take him to run 200 meters
knowing that he runs at the same speed all the time ?

MEDIUM



Manon has 5 pens more than Lucy .
Lucy has twice as many pens as Anna .
Mia has 3 pens less than Manon and she has 6 pens .
How many pens does each child have ?



HARD



Fill in the dots so that the division is right .

$$\begin{array}{r} 26 \blacksquare 9 \\ - 14 \\ \hline 12 \blacksquare \\ 126 \\ \hline 2 \blacksquare \\ 28 \\ \hline 1 \end{array}$$

$$\begin{array}{r} \blacksquare 4 \\ \hline \blacksquare \blacksquare \blacksquare \blacksquare \end{array}$$

MATHS RIDDLES n° 14

AYME NATHAN 6^{ème} 1

OU-AANKOUR YASMINE 6^{ème} 1

EASY :

My brother comes home with 4 identical chocolate bars .

While we talk I eat 1 half of one bar

and he eats another bar

(1 bar measures 6 cm)



If we join all the remaining bars , how long will it be ?

MEDIUM :

Lena wants to make her dining room bigger .

Knowing that she gets paid 2 500 £ per month

and she has to use 5 451 £ from her bank

account and she needs another

10 549 £ to finance the whole construction



1) How much does the construction cost ?

2) How many months does she have to work for ?

HARD :

In a store 7 identical bottles of shampoo cost 21 £

and 5 shower gel cost 10 £ .

Knowing that one of the customers has a VIP pass

which allows him to get 25 % off any products .

How much will he have to spend if he buys

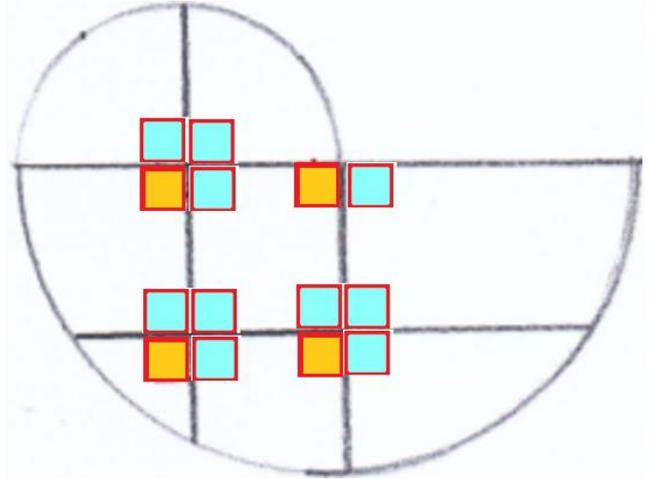
3 shower gel and 4 bottles of shampoo ?



ANSWER KEY RIDDLE n° 1

EASY : 14 right angles

because 4 orange + 10 blue
= 14 right angles



MEDIUM : 13 is the starting number

because $13 \times 2 = 26$ and $26 - 4 = 22$
then $22 \times 3 = 66$ and $66 + 9 = 75$

In fact, if we calculate backwards,
we get again 13 :

$$75 \xrightarrow{-9} 75 - 9 = 66 \xrightarrow{\div 3} 66 \div 3 = 22 \xrightarrow{+4} 22 + 4 = 26 \xrightarrow{\div 2} 26 \div 2 = 13$$

HARD : the hot-air balloon will travel for 2 days

because $6 + 43 + 29 = 78$ days and $78 \text{ days} + 2 \text{ days} = 80 \text{ days}$

Horse-drawn cart : $518\,400 \text{ s} = 518\,400 \text{ s} : 3\,600 \text{ s} = 144 \text{ hours}$
 $144 \text{ h} : 24 \text{ h} = 6 \text{ days}$

Hot-air balloon : 2 days

Boat : $61\,920 \text{ minutes} = 61\,920 \text{ min} : 60 \text{ min} = 1\,032 \text{ hours}$
 $1032 \text{ h} : 24 \text{ h} = 43 \text{ days}$

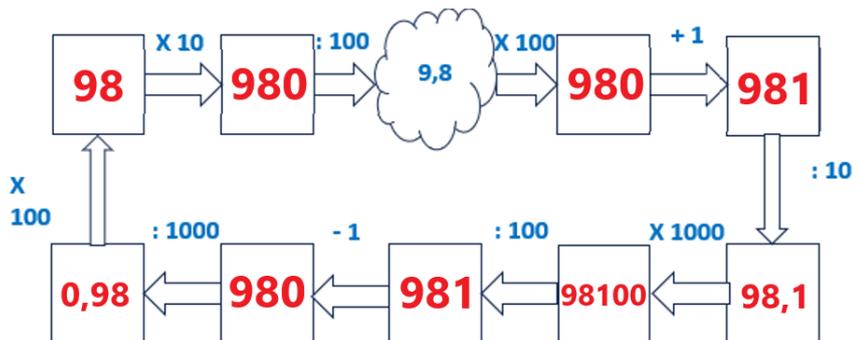
Train : 29 days

ANSWER KEY RIDDLE n° 2

EASY :

MEDIUM : There are 23 pupils
in each classroom

because $613 - 38 = 575$
and $575 : 25 = 23 \text{ pupils}$



HARD :

in Green

in Red

small segment

4

1.6

Average segment

5,5 (4 + 1,5)

4 (1,6 X 2,5)

Large segment

7 (5,5 + 1,5)

10 (4 X 2,5)

Total : $4 + 5,5 + 7 = 16,5 \text{ cm}$ and $1,6 + 4 + 10 = 15,6 \text{ cm}$

Total length : $16,5 + 15,6 = 32,1 \text{ cm}$

ANSWER KEY RIDDLE n° 3

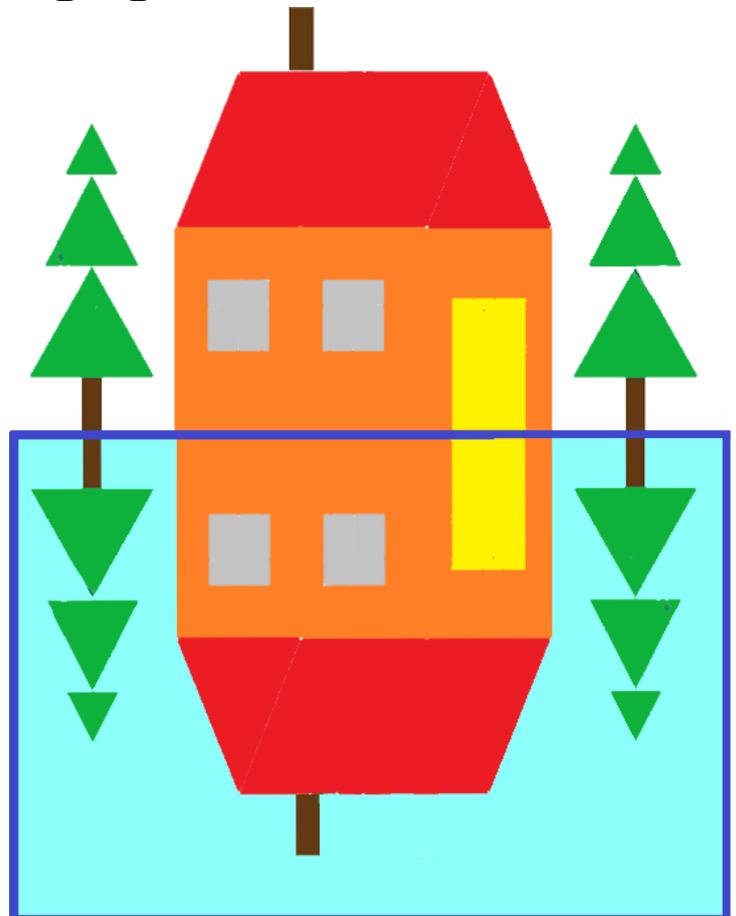
EASY:

Outside : There are **10** people on the terrace and **2** people serve on the terrace , so $10 + 2 = 12$ people are on the terrace
But 4 people went into the restaurant (it is cold) so $12 - 4 = 8$ people are on the terrace !

Inside : Since there are **20** people inside the restaurant and since **3** people serve inside the restaurant , $20 + 3 = 23$ people are inside the restaurant . **But 4** people went into the restaurant (cold) so $23 + 4 = 27$ people are inside the restaurant !

MEDIUM:

The answer is to draw the symmetric image of the house and the two trees in the lake



HARD:

1,2	3	0,1	1,8	0,9	1,4	0,7	2,5	
60	2,4	65	0,9	1,4	0,7	1,2	0,6	EXIT
32	1,8	0,9	0,45	2,5	1	108	50	
84	0,9	2,4	8,5	10	34	6,2	24	
0,68	56	1,2	2,7	4,2	2	8,8	2024	
				ENTER				

ANSWER KEY RIDDLE n° 4

EASY : 20 TRIANGLES : 9 on the left face and 11 on the right face
(without counting the hidden faces)

MEDIUM : He must buy 2 cows to raise his production

Each cow gives $4 \times 6 = 24$ pieces of cheese . The farmer who has 7 cows makes $7 \times 24 = 168$ pieces of cheese .

But it is not enough because he wants 205 pieces of cheese .

He needs $205 - 168 = 37$ pieces of cheese therefore

he must buy 2 cows to raise his production and

he will have $168 + 2 \times 24 = 168 + 48 = 216$ pieces of cheese

HARD : Total cleaning cost paid by the hotel per day is 4 236 \$

Number of non suites : $372 - 48 = 324$ non suite

Number of sheets and duvet covers for the non suites :

324×2 sheets = 648 sheets / 324×1 duvet = 324 duvet covers

Number of sheets and duvet covers for the 48 suites :

48×3 sheets = 144 sheets / 48×1 duvet = 48 duvet covers

Total number of sheets and duvet covers in this hotel :

648 + 144 = 792 sheets / 324 + 48 = 372 duvet covers

total amount paid for the sheets (cost 3 \$) : 792 \times 3 \$ = 2 376 \$

total amount paid for the duvet covers (cost 5 \$) : 372 \times 5 \$ = 1 860 \$

Total cost : 2 376 \$ + 1 860 \$ = 4 236 \$

ANSWER KEY RIDDLE n° 5

EASY : You must calculate how many times he runs a day when he does not go to school : 3 (days) \times 30 (min) = 90 min

You must calculate how many times he runs on the days when has school :

4 (days) \times 15 (min) = 60 min . For one week : 90 min + 60 min = 150 minutes

The result for two weeks : 150 min \times 2 weeks = 300 minutes

= 5 \times 60 min = 5 hours

MEDIUM :

You must calculate the total number of cookies :

$107 - 9 - 1 + 11 = 98 - 1 + 11 = 97 + 11 = 108$ cookies

The part of each of the four children :

$108 : 4 = 27$ cookies each and there are no cookies left



ANSWER KEY RIDDLE n° 6

EASY* : There remains 2 chops because the dog eats $6 : 2 = \underline{3}$ chops

There remains $6 - 3 = 3$ chops .

His brother eats $1 / 3$ of 3 chops so $3 : 3 = \underline{1}$ chop .

Finally there remains $6 - (\underline{3} + \underline{1}) = 6 - 4 = 2$ chops

AVERAGE** : There are 44 edges

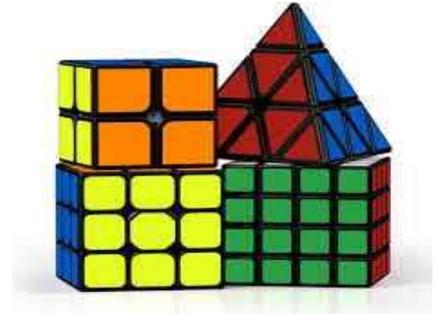
1 pyramid has $4 + 4 = \underline{8}$ edges

1 square has $4 + 4 + 4 = 4 \times 3 = 12$ edges

So 2 squares have $2 \times 12 = \underline{24}$ edges

1 rectangular prism has $4 \times 3 = \underline{12}$ edges

In total there are $\underline{8} + \underline{24} + \underline{12} = 32 + 12 = 44$ edges



DIFFICULT*** : Total amount paid by the students this week is 1 379 £

Number of half-boarders : $657 : 3 = 219$ and $219 \times 2 = \underline{438}$

Number of half-boarders eating on Wednesdays : $438 : 6 = 73$

Number of half-boarders absent : $108 : 4 = \underline{27}$

total amount (meal costs 2 £ on Wednesdays) : $73 \times 2 \text{ £} = \underline{146} \text{ £}$

total amount (meal costs 3 £) : $(\underline{438} - \underline{27}) \times 3 = 411 \times 3 = \underline{1\ 233} \text{ £}$

Total amount : $146 \text{ £} + 1\ 233 \text{ £} = 1\ 379 \text{ £}$

ANSWER KEY RIDDLE n° 7

EASY : The wrong pattern is Jonathan's (3)

Because if we fold it it's not a cube

MEDIUM : The best option is the 1st one ,

if we take 5 minutes for the first one we have 8 balls

and for the 2nd one we have 7 balls

The first one : 40 balls to play 25 minutes dividing by 5 we get :

$40 : 5 = \underline{8}$ balls to play $25 : 5 = 5$ minutes

The 2nd one : 21 balls to play 15 minutes dividing by 3 we get :

$21 : 3 = \underline{7}$ balls to play $15 : 3 = 5$ minutes

HARD : A) At 23.50 pm on the next day because $12:50 + 11:00 = 23:50$

B) It lasts 34 hours because between 13:50 (French hour) and 24 :00 pm there are 10 h 10 because $24 \text{ h} - 13 \text{ h } 50 = 11 \text{ h} - 0 \text{ h } 50 = 10 \text{ h } 10$.

As the plane lands on the next day at 23:50 pm (French hour) we need to calculate :

$10 \text{ h } 10 + 23 \text{ h } 50 = 33 \text{ h } 60 = 33 \text{ h} + 1 \text{ h} = 34 \text{ hours}$

ANSWER KEY RIDDLE n° 8

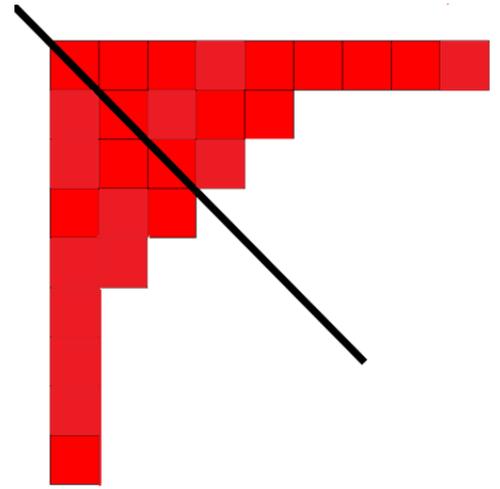
Easy* The answer is Julius Caesar

13 / 24 / 15 / 12 / 24 / 22 6 / 4 / 8 / 22 / 4 / 21

Substraction by 3 , we get :

10 / 21 / 12 / 9 / 21 / 19 3 / 1 / 5 / 19 / 1 / 18

J U L I U S C A E S A R



Medium **

Hard ***

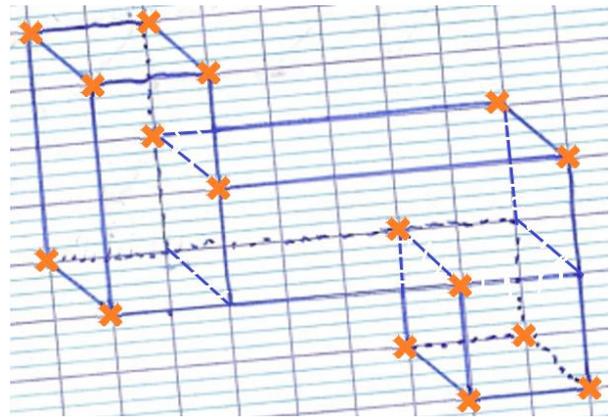
There are **16 vertices** (4 X 4 = 16)

There are **10 faces**

(Views front : 1 / behind : 1

left : 2 / right : 2

top : 2 / bottom : 2)



ANSWER KEY RIDDLE n° 9

Easy : At the end of your game you win $46 - 43 = 3$ levels

So you won in your game : $3 \times 80\,000 = \underline{240\,000 \text{ EXP}}$

Medium : two lorries full of 26 cows : $2 \times 26 = 52$ cows

total number of cows : $85 + 52 - 11 = 137 - 11 = 126 =$ cows

Total number of cows in each of the two fields : $126 : 2 = \underline{63 \text{ cows}}$

Hard :

0



	QUANTITY	UNIT PRICE	TOTAL
CAP	84	9 €	756 €
SHOES	6	48 €	288 €
SHIRT	21	13 €	273 €
TRACKSUIT	7	35 €	245 €
PAIRS OF SOCKS	18	4 €	72 €
		TOTAL	1 634 €

ANSWER KEY RIDDLE n° 10

EASY : ★

No , she needs another dollar because

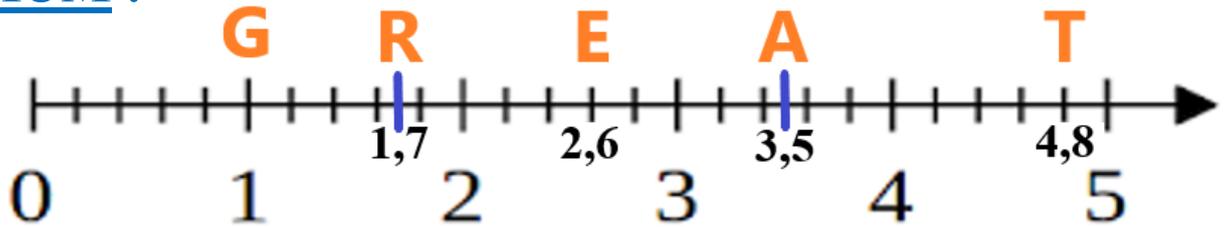
Apples : $2 \times 1 \$ = 2 \$$

Fruit juice : $3 \times 3 \$ = 9 \$$

Pens : $5 \times 2 \$ = 10 \$$

Cost : $2 \$ + 9 \$ + 10 \$ = 21 \$$ bigger than $20 \$$ (difference $1 \$$)

MEDIUM : ★ ★



R1 : It's the letter G and the famous word is **GREAT** .

R2 : $4 + 2 = 6$ and $6 : 6 = 1$ **Put the letter G at 1**

HARD : ★ ★ ★

$5 \times 9 = 45$ and $45 \div 3 = 15$ then $15 - 8 = 7$

ANSWER KEY RIDDLE n° 11

Easy :

Medium : There will be **13** goldfish in the aquarium

Total Number of fish still in the aquarium :

$9 - 3 - 2 - 1 = 6 - 2 - 1 = 4 - 1 = \underline{3}$ goldfish

As 3 goldfish died of old age and a cat ate 2 we know that

$3 + 2 = 5$ dead goldfish so bilal buys the double : $5 \text{ fish} \times 2 = \underline{10}$

New total Number of fish in the aquarium : $\underline{3} + \underline{10} = 13$ goldfish

Hard : The **6** friends will have **15** sweets each
and the little sister Anna will have **5** sweets

Total Number of dragibus : $25 \text{ dragibus} \times 2 = \underline{50}$ dragibus

Total Number of crocodiles : $7 \text{ crocodiles} \times 3 = \underline{21}$ crocodiles

Total Number of schtroumpfs : $24 \text{ schtr} \times 1 = \underline{24}$ schtroumpfs

Total Number of sweets : $50 + 21 + 24 = 71 + 24 = 95$ sweets

The division of 95 by 6 gives the quotient : **15** and the remains is **5**

789
X 36

4734
23670

= 28404

ANSWER KEY RIDDLE n° 12

EASY : 1st packet : $15 - 3 = 12$ candies
2nd packet : $2 \times 3 = 6$ and $15 - 6 = 9$ candies
3rd packet : $3 \times 3 = 9$ and $15 - 9 = 6$ candies

MEDIUM : There are **80** beach sunshades

On a beach there are 64 people .

The quarter of 64 people is : $64 / 4 = 16$ people who have 2 sunshades each
it means that we have $16 \times 2 = 32$ sunshades

It remains 48 people ($64 - 16 = 48$) who have only one sunshade so we
have 48 sunshades .

Finally we have $32 + 48 = 80$ sunshades .

HARD : $7 + 3 = 10$ divided by 2 equals $10 : 2 = 5$
 $5 - 4 = 1$ multiplied by 5 equals $1 \times 5 = 5$
 $5 + 2 = 7 !$

ANSWER KEY RIDDLE n° 13

EASY : **1 minute**

In 30 minutes he runs 6 kilometers so in 5 minutes he runs 1 kilometer
it means that in 5 minutes he runs 1 000 meters
so in 1 minute he runs 200 meters

MEDIUM : **Mia has 6 pens** **Manon has 9 pens**

because Mia has 3 pens less than Manon ($6 = 9 - 3$)

Lucy has 4 pens

because Manon has 5 pens more than Lucy ($9 = 4 + 5$)

Anna has 2 pens because Lucy has twice as many
pens as Anna ($4 = 2 \times 2$)

HARD :

$$\begin{array}{r} 2689 \\ - 14 \\ \hline 128 \\ 126 \\ \hline 29 \\ 28 \\ \hline 1 \end{array} \quad \begin{array}{r} 14 \\ \hline 192 \end{array}$$

ANSWER KEY RIDDLE n° 14

EASY :

Number of remaining bars : $4 - 0,5 - 1 = 3,5 - 1 = 2,5$ bars

Length of the remaining bars : $2,5 \times 6 \text{ cm} = \mathbf{15 \text{ centimeters}}$

MEDIUM :

1) $10\,549 \text{ £} + 5\,451 \text{ £} = \mathbf{16\,000 \text{ £}}$

2) $16\,000 \text{ \$} : 2\,500 \text{ \$} = 6,4$ months so **7 months**

HARD :

5 shower gel cost 10 £ so and 1 shower gel costs $10 : 5 = 2 \text{ £}$.

As 1 shower gel costs 2 £ so 3 shower gel cost $3 \times 2 \text{ £} = \underline{6 \text{ £}}$

7 identical bottles of shampoo cost 21 £

so 1 bottle of shampoo costs $21 : 7 = 3 \text{ £}$

so 4 bottle of shampoo cost $4 \times 3 \text{ £} = \underline{12 \text{ £}}$

without any reduction the price would have been $\underline{6 \text{ £}} + \underline{12 \text{ £}} = 18 \text{ £}$

with the VIP pass we pay 25 % less than the initial price

that means a reduction of : $18 \text{ £} : 4 = 4,5 \text{ £}$

The final price is : $18 \text{ £} - 4,5 \text{ £} = \mathbf{13,5 \text{ £}}$

MATHS

addition
N
Fraction

LAND

Algebra
City Capital
3 6
1 5 8 4

Geo-Town



Multiplication
New

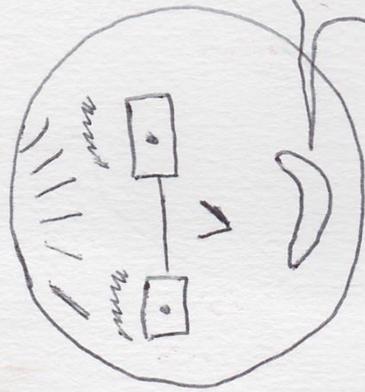


Subst
Parad

RIDDLES

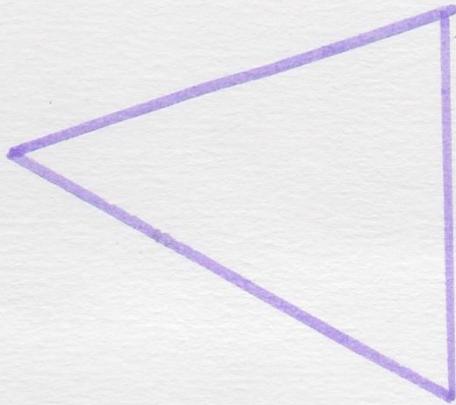
MATHS

class: dil



I love Maths and English.

RIDDLES NUMBER!!!



$$3 \times 25 = \dots$$

How many...

Easy:

Medium:

Hard :



Marda buys 6 dogs...