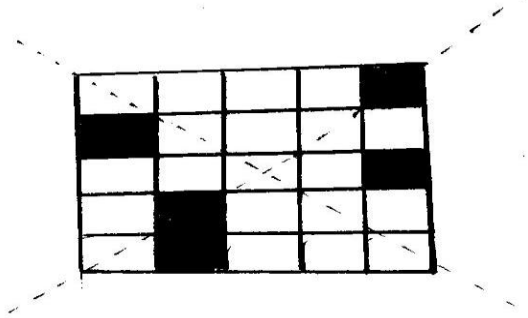
25.01.20 EVERWIN VIDHYASHRAM

STD : IX CONQUERING MATH

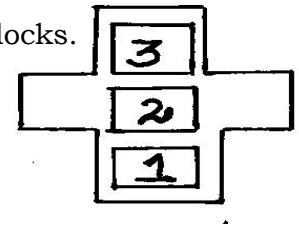
1. MIRROR, MIRROR PUZZLE:

If you Continue Shading the Squares so that the two dotted lines become lines of symmetry (mirror lines) of the completed diagram, how many squares will be left unshaded?



2. BLOCKSLIDE PUZZLE:

The diagram below shows a Cross Shaped box containing three numbered blocks.



The Puzzle is to slide the blocks around the box until the numbers read 1,2,3 as you go down. How do you do it? And how many moves does it take?

3. MESS PUZZLE:

Mrs. Mess was buying a set of garden furniture. The bill was seventy dollars. She gave the attendant What she thought were two ₹50 notes, (actually two ₹ 100 notes).The attendant was sleepy and didn't notice either, so he gave Mrs Mess what he thought were three ₹ 10 notes (actually three ₹ 50 notes). Who ended up better off than they should.

4. What day do you go back to school, Horace? asked his grandmother one day.

"Well", Horace replied, "Nine days ago, the day before yesterday was three weeks before the second day of term".

If Horace had this Conversation on a Sunday, what day of the week did he start school?

5. THE END OF YEAR PARTY PUZZLE:

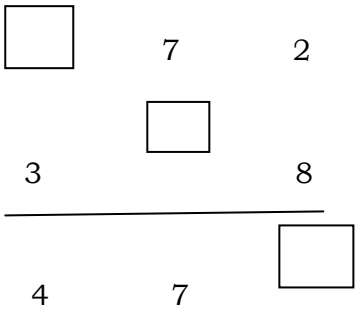
Several people of different ages brought things for the party.

Charlie, Who's 12, brought the POTATO CRISPS. Wayne brought the FIZZY LEMONADE (he's 13). Helen (11) brought the PAPER PLATES, and her brother peter (9) brough the PAPER CUPS. Shella is the same age as charlie: She brought the PARTY POPPERS.

Young Horance brought the PEANUTS: how Old is he?

Have a great party!

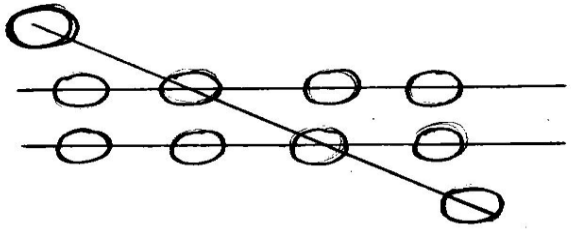
6.



Mathematics book contained this addition sum which had been marked correct by the teacher. The three squares in the diagram are where the paper was so bad I couldn't read them. What were the three missing numbers?

7. Below are 10 Coins arranged in three lines of four coins.

Your task is to re-arrange the same ten coins to make FIVE lines of four coins. Each line must be straight and must contain exactly four coins.



8. MAKING THE AVERAGE PUZZLE:

If I drive half-way to the city at 30km/hr, how fast do I have to go for the rest of the way to make the average speed for the entire journey of 60 km/hr?

9. HOUR GLASSES 1 PUZZLE:

You need to boil eggs for exactly 9 minutes, or else the visiting Duchess will complain and you will lose your job as head Chef. But you have only 2 Hour glasses, one measures 7 minutes, and the other measures 4 minutes. How can you correctly measure 9 minutes?

10. FATHER, SON AND DOG PUZZLE:

A father, a son and a dog are walking down a road together.The boy walks at 5 km/h and is just behind the father who walks at 6 km/hr. The dog runs from boy to father and back again with a constant speed at 10 km/h. The dog does not slow down on the turn. How far does the dog travel in/hour?