June holiday lesson 1

1. Mr Lim has 24 cards and 30 stamps.
2. What is the maximum number of envelopes he can pack these items equally without any leftover?
3. How many cards and stamps are there in each envelope?
4. There are 48 pupils from green house, 60 pupils from yellow house and 72 pupils from blue house that joined the Chess CCA.
5. How many groups can be formed so that each group will have the same number of pupils for each house color?
6. How many green house pupils, yellow house pupils and blue house pupils are there in each group?
7. Sarah has some sweets. If she packs them in groups of 5, she will have 3 extra sweets left. If she packs them in groups of 8, she will have 7 extra sweets left. What is the minimum number of sweets Sarah could have?
8. Sarah has some sweets to give out to her friends. If she gives each friend 5 sweets, she will have 3 extra sweets left. If she gives each friend 8 sweets, she will need 6 more sweets. How many sweets does Sarah have?
9. Joan is 4 times as old as Tom now. In 6 years’ time, Joan will be 24 years older than Tom. How old is Tom now?
10. Lisa and Karen were in a queue with a total of 20 people including both of them. There were 15 people in front of Lisa. There were 13 people behind Karen. How many people were there between Lisa and Karen?
11. There is a sale of boys and girls T-shirts in a shop. A boy’s T-shirt cost $6 while a girl’s T-shirt cost $8. There is a total of 15 T-shirts sold and the shop owner received $100. How many girl’s T-shirts are sold?

June Holiday Lesson 2

1. If 2 workers can paint 12 walls in 6 days, how many walls can one worker paint in 3 days?
2. 6 men working 8 hours a day can paint a house in 2 days. How many more days would 4 men need to paint the same house if they only work 3 hours a day?
3. A fish tank is connected to three taps. Tap A can fill the tank in 2 hours. Tap B can fill the tank in 3 hours. Tap C can drain the tank in 6 hours. If all three taps are turned on at the same time, how long would it take to fill this empty fish tank?
4. It takes Rose and Sandy 12 hours to decorate their classroom for CNY. If Rose works alone, she needs 16 hours to finish the project. How long does it take for Sandy to complete this project all by herself?
5. A pen costs $2 and a ruler costs $1. Mary spent $18 on some pens and rulers. 1/5 of the items she bought were rulers. How many rulers did she buy?

June Holiday Lesson 3 & 4

1. Ms Lim bought 4 basketballs and 5 volleyballs for $520. A few days later, he bought another 5 basketballs and 4 volleyballs for $533. How much were each basketball and each volleyball?
2. One shirt costs as much as 3 hats. Alice bought 25 shirts and 12 hats yesterday. She bought some shirts and 27 hats today with the same amount of money. How much shirts did she buy today?
3. David bought a total of 20 blue pens and green pens for $22. He paid $2 for each blue pen and $1 for every 2 green pens. How many blue pens and green pens did he buy each?
4. The figure below is formed by 2 squares. If the total area of the figure is 89cm2, what is the perimeter of the figure?

1. Sarah and Mable share a coin box. At the end of each week, Sarah deposits $3 into the box. At the end of each week, Mable takes out a certain amount of money from the box. The amount of money that Mable takes out each week is the same. At the end of the 4th week, there is $8 more money in the coin box than when it started. How much did Mable take out each week?
2. How many triangles are there in the figure below?

1. A clock loses exactly 10 minutes every hour. If the clock is set correctly at noon, what is the correct time when the clock reads 3:20pm?
2. Find the number represented by each letter? A=\_\_\_\_\_, B=\_\_\_\_\_, C=\_\_\_\_\_, D=\_\_\_\_\_

D

C D

B C D

+ A B C D

2 0 0 8

June Holiday Lesson 5

1. Find the number of triangles in the figure below.
2. Use these digits only once to fill in the blanks below

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

+

1. Cindy spent $9 on some apples and oranges. Each apple cost 20 cents. Each orange cost 30 cents. How many apples did she buy if she bought thrice as many apples as oranges?
2. Four boys were queuing up at a food stall, John, Ben, Sam and Daniel. The sum of their ages was 33. Ben was the first boy in the queue. The sum of the ages of the boys standing behind Ben was 25. The sum of the ages of the boys standing in front of John was 27. The sum of the ages of the boys standing behind Daniel is 15. How old is Sam?
3. Mary had 3 times as many marbles as sweets. After giving 15 sweets to her brother, the number of marbles became 12 times the number of the remaining sweets. How many sweets did Mary have at first?
4. Rose had 3 times as many shirts as shorts. After her mother bought her 6 new shorts, the number of shirts became 12 more than the number of her shorts. How many shirts did Rose have at first?
5. There were 10 more chicken pies than beef pies on sale in a shop. After selling twice as many chicken pies as beef pies, there were 6 more beef pies than chicken pies left. How many chicken pies did the shop sell?
6. Melvin, Dexter and Edward had 270 cards at first. Melvin gave 2/5 of his cards to Dexter. Dexter then found that he had 10 cards less than Melvin. Edward had 1/3 of what Melvin had left. How many cards did Melvin have at first?
7. Tank A contains 1/3 litre of water. Tank B contains ¾ litre of water. How much water must one pour from Tank B to A so that Tank B will contain 1/12 litre more water than Tank A?

GA:

1. In a certain code, MONKEY is written as XDJMNL, how is TIGER written in that code?
2. QDFHS B. SDFHS C. SHFDQ D. UJHFS
3. I have so many four digit code numbers to remember, so I devised a code which is complicated enough to confuse any thief who tries to steal my wallet. I code all the numbers using 1=A, 2=B, and up to 9=I, 0=J. Then I write the coded numbers down backwards so that 1234 is written as DCBA. Finally, at the end of each coded number I add an extra letter between A and J to say what that particular code is: C is for credit card; F is for phone card; B is for bicycle lock combination; E is for my Easter Bank card; and D is for my Derby Building Society card. My list looks as follows:

A D G E F

G J A C D

C J D B E

D F G C B

B G F A C

What is my bicycle lock combination?

1. 4673
2. 5741
3. 7613
4. 4356
5. 3764
6. What is the number that replaces the question mark?

50, 48, 24, 22, \_\_\_\_?\_\_\_\_, 9

1. What number should replace the question mark?

1. Choose correct answer after analyzing the relationship of the first two words

Fear: Threat: Anger: ?

1. Compulsion B. Panic C. Provocation D. Force

Doctor: Patient: Politician: ?

1. Masses B. Voter C. Power D. Chair