

# FOBISIA Maths 2015



**BISS Puxi Shanghai**

## INDIVIDUAL CHALLENGE

### Logic Round

NAME:

SCHOOL:

1.) Three schools went to a FOBISIA Maths competition. Can you find their favourite maths round, what T-Shirt they wore and the type of transport they used to get to the competition?

School: Kinabalu, Harrow, DBIS

Transport: Plane, Train, Bus

T-Shirt Colour: Blue, Black, White

Favourite Maths Round: Logic, Relay, Spatial

#### Clues

1. Kinabalu went to the competition by train, but did not wear a white T-shirt.

2.) The school whose favourite maths round was logic went by bus.

3.) The team whose favourite round was the relay did not wear a black T-shirt.

4.) The team who travelled by plane and wore the blue T-shirt was not DBIS.

One mark for each correct answer.  
5 bonus marks if they are all correct.

	Logic	Relay	Spatial	Blue	Black	White	Plane	Train	Bus
Kinabalu									
Harrow									
DBIS									
Plane									
Train									
Bus									
Blue									
Black									
White									

Record in this grid all of the information obtained from the clues, by using a cross to indicate a definite 'no' and a tick to indicate a definite 'yes'. Transfer these to all sections of the grid to eliminate all but one possibility, which must be the correct one.

School	Transport	T-Shirt Colour	Favourite Maths Round
Kinabalu			
Harrow			
DBIS			

2.) Five children enjoyed a pizza and drink extravaganza at the FOBISIA Primary Maths Challenge. Can you figure out who enjoyed what?

	Hawaiian	Pepperoni	Big Apple	BBQ Chicken	4 Cheese	Water	Coke	Fanta	Sprite	Juice
Emma										
Anneka										
Marcus										
Ralph										
Joshua										
Water										
Coke										
Fanta										
Sprite										
Juice										

Clues

- Marcus devoured a delicious Big Apple pizza whilst not drinking fanta.
- Coke was eagerly slurped by Anneka, but she did not eat the Pepperoni pizza.
- Hawaiian & Sprite made a fantastic combination.
- Ralph enjoyed drinking juice.
- Emma gorged on the 4 Cheese Pizza.
- Water was enjoyed by one child.
- Did Joshua eat BBQ Chicken?

Two marks for each correct answer.  
10 bonus marks if they are all correct.

Name	Pizza	Drink
Emma		
Anneka		
Marcus		
Ralph		
Joshua		

3.) When five FOBISIA children went to Pearl City, the largest fake market in Shanghai, to buy gifts they haggled some great discounts. Can you determine who bought which gift in which colour and how much was knocked off the original selling price?

**Names:** Joshua, Gabriel, Anneka, Seonaid, Emma

**Gifts:** silk scarf, chopsticks, tea set, Chinese dress, paper cutting

**Colours:** white, yellow, blue, pink, red

**Amount knocked off Price:** 50rmb, 100rmb, 140rmb, 180rmb, 230rmb

	Silk scarf	Chopsticks	Tea set	Chinese dress	Paper cutting	White	Yellow	Blue	Pink	Red	50 rmb	100 rmb	140 rmb	180 rmb	230 rmb
Joshua															
Gabriel															
Anneka															
Seonaid															
Emma															
50 rmb											<u>Clues</u>  1.) Joshua bought a silk scarf, this had less knocked off the price than the blue item.  2.) The pink Chinese dress was not bought by Gabriel.  3.) Seonaid was delighted to have 180rmb knocked off the item she bought.  4.) The item Emma bought was red, this had exactly 40rmb more knocked off than the paper cutting.  5.) The white item had more knocked off than the paper cutting.  6.) The tea set did not have 140rmb knocked off and was not bought by Gabriel or Anneka.				
100 rmb															
140 rmb															
180 rmb															
230 rmb															
White															
Yellow															
Blue															
Pink															
Red															

Three marks for each correct answer.  
15 bonus marks if they are all correct.

Name	Gift	Colour	Discount
Joshua			
Gabriel			
Anneka			
Seonaid			
Emma			

4.) Five bidders have been bidding on items at the local auction and have all been lucky enough to win their chosen item. Can you determine who was bidding on which item, how much did they end up paying and how many bids were cast?

	Rare Book	Old Coin	Grandfather clock	Bookcase	Football Shirt	3	6	10	12	16	£35	£50	£75	£100	£120	
Jack																
Gabriel																
Emma																
Ralph																
Marcus																
£35																
£50																
£75																
£100																
£120																
3																
6																
10																
12																
16																

Clues

- 1.) Gabriel paid more for the item that he won than Emma paid for hers, but less than Ralph paid for his.
- 2.) The Old Coin, a silver shilling dated 1636, received exactly half the amount of bids of the item bought for £120.00.
- 3.) The Football Shirt, that was said to have been worn by David Beckham, was bought for exactly twice as much as the item that received 10 bids.
- 4.) Emma had exactly twice as many bids on her item than Ralph did on his.
- 5.) Jack paid £75.00 for the item that he bought which was not the Old Coin or the Rare Book, which was a 1st edition by J.K. Rowling.
- 6.) Marcus made a bid on the Old Coin as well as the item that he won, which was not the most expensive.
- 7.) The Bookcase received more bids than the Grandfather Clock, but less bids than the item that sold for £50.00.

Four marks for each correct answer.  
20 bonus marks if they are all correct.

Name	Item	Price	Number of bids
Jack			
Gabriel			
Emma			
Ralph			
Marcus			