



# MASTERTEAM X

September 2009



Dear Students,

You will have 90 minutes to do the quiz, which consists of 40 multiple-choice questions\*. To answer them, you must decide which of these answers are correct (only one each time) and put the letter (a, b, c, or d) associated with the given answer into the grid on your answer card.

- A book costs 1\$ and a half of the price of the book. How much does it cost?  
a). **2\$**                      b). 1.5\$                      c). 1\$                      d). 2.5\$
- A cruise liner sank in the middle of the ocean. The survivors landed on a desert island. There was enough food for the 220 people to last three weeks. Six days later a rescue ship appeared, unluckily this ship also sank, leaving an additional 55 people stranded on the island to now share the original rationed food. The food obviously had to be re-rationed, but everyone was now on one-half of the original ration, so how many days in total would the food last for, from the day of the original sinking?  
a). **30**                      b). 24                      c). 15                      d). 12
- Where does a peanut grow?  
a). **Underground**                      b). On a sand dune                      c). In the sea                      d). On the branch of a tree
- If the Manchester Quartet can play Mozart's 'Eine kleine Nachtmusik' in 12 minutes, how quickly can the Birmingham Trio play it?  
a). In 16 minutes                      **b). In 12 minutes**                      c). In 9 minutes                      d). In 6 minutes
- As ouu oan oee, oy poinoer oepoacos eoero thord oetoeer oito tho leoteo 'o'. How many oifoeront oetoeero hae boen oepoacad?  
a). **15.**                      b). 34                      c). 32                      d). 30
- A plane maintains an average speed of 225mph from London to New York. It then returns from New York to London at an average speed of 180mph. What is the average speed for the entire journey?  
a). 100 mph                      **b). 200mph**                      c). 202,5 mph                      d). 101,25 mph
- When standing at the most northern point of the earth, what is the name of the closest island to the west of that point?  
a). Greenland                      b). Iceland  
c). Spitsbergen                      **d). There is no island.**
- Sally likes soda very much. At the local convenience store, for 5 empty soda bottles she receives a full bottle. As part of the Girl Guide's recycling initiative, she manages to collect 77 empty bottles. How many bottles of soda will she be able to drink in total?  
a). 15 bottles                      b). 18 bottles                      **c). 19 bottles**                      d). 20 bottles
- Which is the only rock that can float?  
a). Granite                      b). Marble                      c). Slate                      **d). Pumice**

10. Last week, I travelled from Bristol to Leeds. On the first day I travelled one quarter of the distance. On day two, I travelled one half of the remaining distance. On day three, I travelled three quarters of the remaining distance. Yesterday I travelled one third of the remaining distance. I now have 21 miles left to travel. How far is it from Bristol to Leeds in total?
- a). 189 miles                      **b). 336 miles**                      c). 672 miles                      d). 896 miles
11. Which triangle has a bigger area?
- a). **A triangle with sides measuring 300, 400, and 500.**  
b). A triangle with sides measuring 300, 400, and 700.  
c). A triangle with sides measuring 400, 500 and 900  
d). A triangle with sides measuring 300, 500, and 800
12. Which word is the odd one out: football, badminton, baseball, golf, tennis, cricket, billiards, rugby?
- a). Golf                              b). Cricket                              **c). Badminton**                              d). Tennis
13. You are in the land of Logica, where there are three types of elves. Blue elves always tell the truth, green elves sometimes tell the truth, and red elves never tell the truth. The problem is, you are colorblind, and all the elves appear gray. You walk up to an elf and the elf says to you, "I always lie." What color elf are you speaking to?
- a). Blue                              **b). Green**                              c). Red                              d). There's no way to say for sure
14. In weather terms, what is a mixture of rain and snow?
- a). Drizzle                              **b). Sleet**                              c). Dew                              d). Mist
15. Take the number of days in a leap year, add the number of months with 30 days, divide by the number of loafs in a baker's dozen, add the number of days in March, add the square root of nine, divide by the number of days in a week. Which month are you left with?
- a). August                              **b). September**                              c). October                              d). November
16. If you were to spell out the numbers in full, (One, Two, Three, etc), how far would you have to go until you found the letter 'A'?
- a). **1000**                              b). 1                              c). 10                              d). 100
17. Father, sister, cousin, mother, grandfather, aunt and uncle. Which one does not belong?
- a). **Cousin**                              b). Grandfather                              c). Sister                              d). Aunt
18. Peter picked one pepper more than Paul. Pat picked one pepper more than Pam. Peter and Paul picked 10 more peppers than Pat and Pam. Peter, Paul, Pat and Pam picked 60 peppers. How many peppers did Peter pick?
- a). 15                              b). 16                              c). 17                              **d). 18**
19. What is the fourth dimension?
- a). Length                              **b). Time**                              c). Breadth                              d). Height
20. What name is given to a number multiplied by itself?
- a). Root                              b). Binary                              **c). Square**                              d). Googol

21. I have five letters and five addressed envelopes. If I place the letters in the envelopes at random, what are the chances that only four letters are in their correct envelopes
- a). 0,03                      b). 0,2                      c). 0,8                      **d). Nil**
22. Why was table-tennis called 'ping-pong'?
- a). Because the original balls were made from celluloid called in China 'ping-pang'  
b). After its inventor Mr Ping  
c). From the Chinese words meaning 'indoor game'  
**d). Because the balls made this sound on the bats**
23. What name is given to the main body of a snail?
- a). Hand                      b). Leg                      c). Arm                      **d). Foot**
24. A library contains 3 varieties of books: mystery, romance, and periodicals. There are a total of 150 books. There are 3 times as many mysteries as romance and twice as many periodicals as romance. How many of each variety are there?
- a). 25 mystery, 50 romance, 75 periodical                      **b). 75 mystery, 25 romance, 50 periodicals**  
c). 50 mystery, 75 romance, 25 periodical                      d). None of these
25. Your friend Nisha wears glasses, and she sends you a smiley that shows she is smiling! Which smiley did she send?
- a). :-)                      b). =)                      **c). 8-)**                      d). ;-)
26. What does an early bird catch?
- a). Worm**                      b). Snail                      c). Time                      d). Dawn
27. A train moves off from London to Birmingham with speed 70km/h and another one from Birmingham to London with speed 100km/h. Which one will be closer to London when they meet? (Ignore the length of the trains, consider them as moving points.)
- a). The one from London                      b). The one from Birmingham  
c). It depends on the distance                      **d). Neither**
28. On a shelf in the library, there is a 3-book set of almanacs labelled volume 1, volume 2 and volume 3. Each book is 2 1/2 inches thick, the pages being 2 inches thick and each cover is 1/4 inch thick. A bookworm starts eating it's way from the 1st page of volume 1 and stops at the last page of volume 3. How far did the bookworm travel?
- a). 7 inches                      **b). 3 inches**                      c). 7,5 inches                      d). 6 inches
29. What's the exact opposite of 'not in'?
- a). In**                      b). Out                      c). Not out                      d). A, b and c
30. What part of your body gives you balance?
- a). Malleus                      b). Stapes                      **c). Labyrinth**                      d). Arms
31. How many birth days does the average man have?
- a). One**      b). It depends on his age      c). As many as he wishes      d). It depends on a man
32. If a clock takes 6 seconds to strike 7 o'clock, how many seconds will it take to strike 11 o'clock?
- a). 12,8                      **b). 10**                      c). 9,43                      d). 10,3

