

# KTSE (Kutchi Talent Search Examination) – 2011 (Nanji Monji Dedhia Charitable Trust)

---

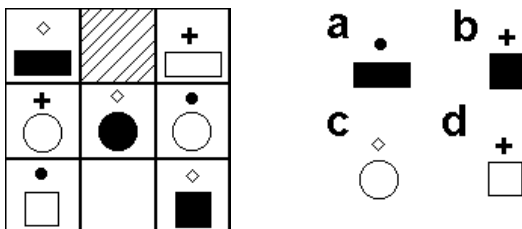
Name: \_\_\_\_\_ ID No.: \_\_\_\_\_

---

## Instructions

- The exam duration is **100 minutes ( 1 hour and 40 minutes)**
- The exam is of 100 marks
- There are **80 questions** in two sections for a total of 100 marks
  - SECTION 1: **1 marks** each (60 questions adding up to **60** marks)
  - SECTION 2: **2 marks** each (20 questions adding upto **40** marks)
  - There is **NO** negative marking
- The rough work should be done on separate paper provided.
- Most questions are multiple choice. **With a pencil, fill the correct answer in the answer sheet separately provided.**
- Since some students might see visual questions for the first time, here is an example of a visual question

Example of Visual question: Fill in the white square with the figure that most logically fits in from the four figures (a,b,c,d)



Answer:

The correct answer is **(d)** since each row has a diamond, plus sign and dark circle on top of each figure. The blank square should have a plus sign on top of it. Also, each row has two white and one dark figures. The blank square should have a white figure. Hence the white square with the plus on top of it is the correct answer

**ALL THE BEST !!**

# SECTION 1

ALL QUESTIONS IN THIS SECTION ARE OF 1 MARKS

**Q1:** (1 mark) In a restaurant, a man orders a meal and a drink. The bill is Rs. 110. If the meal costs Rs. 100 more than the drink, how much does the drink cost?

A: Rs. 10                      B: Rs. 5                      C: Rs. 15                      D: Rs. 100                      E: 105

**Q2:** (1 mark) If Suraj gives Chirag three sweets they will both have the same number of sweets. Instead, if Chirag gives Suraj three sweets, Suraj will have four times as many sweets as Chirag. How many sweets does Chirag have?

A: 13 sweets                      B: 10 sweets                      C: 3 sweets                      D: 5 sweets                      E: 7 sweets

**Q3:** (1 mark) Athlete 4 always beats Athlete 1, while Athlete 2 beats Athlete 3 but loses to Athlete 1. Who finishes last?

A: Athlete 1                      B: Athlete 2                      C: Athlete 3                      D: Athlete 4                      E: Can't say

**Q4:** (1 mark) The three bears were having a picnic at a round table in the forest. One ate honey, another berries, and the third nuts. Papa bear sat on the right of the berry eater, while mama bear sat to the right of baby bear. Who was eating the berries?

A: Papa Bear                      B: Mama Bear                      C: Baby Bear                      D: Can't say for sure

**Q5:** (1 mark) The car drove from one place to another at 50 km/hr. On the return trip, it went at 75 km/hr. The return trip took 2 hours less than the going journey. What is the distance between the two places?

A: 250 km                      B: 300 km                      C: 450 km                      D: 600 km                      E: 75 km

**Q6:** (1 mark) If 6 milkmaids can fill 6 pails of milk in just 6 minutes, then how many milkmaids are needed to fill 100 pails in 100 minutes?

A: 6                      B: 100                      C: 60                      D: 200                      E: Can't say for sure

**Q7:** (1 mark) The Rajdhani is travelling on a 300 km stretch of track across North India. After 200 km, the train breaks down and the passengers have to transfer to the Punjab Mail. The final 100 km took twice as long as the first 200 km. How many times faster was the Rajdhani compared to the passenger train ?

A: Same speed                      B: Twice                      C: Three times                      D: Four Times                      E: Six times

**Q8:** (1 mark) If 12 zloty equal 16 ley, how many zloty for 72 ley?

A: 36                      B: 54                      C: 63                      D: 48                      E: 52

**Q9:** (1 mark) If a brick weighs three kg plus the weight of half a brick, what does a brick and a half weigh?

A: 4.5 kg                      B: 6kg                      C: 9 kg                      D: 12 kg                      E: 15 kg

**Q10:** (1 mark) Suresh is one and a half times as old as Neil, who is one and a half times as old as David. Their ages total 152 years. How old is Neil?

A: 16 years                      B: 24 years                      C: 32 years                      D: 48 years                      E: 72 years

**Q11:** (1 mark) What number should replace the question mark?

100, 99.5, 98, 95.5, 92, 87.5 ?

A: 82                      B: 82.5                      C: 83                      D: 83.5                      E: 84

**Q12:** (1 mark) A photograph measuring 8.5 cm X 7.5 cm is to be enlarged. If the enlargement of the longer side is 13.6 cm, what is the length of the smaller side ?

A: 9 cm                      B: 9.5 cm                      C: 10 cm                      D: 11 cm                      E: 12 cm

**Q13:** (1 mark) If the length of a rectangle is increased by 25 percent and it's width is decreased by 25 percent, what is the change in the area?

A: increase by 5 %    B: decrease by 5 %    C: no change                      D: increases by 2.5%  
E: decreases by 6.25%

**Q14:** (1 mark) If I tripled one quarter of a fraction and multiplied it by that fraction, I would get one-twelfth. What is the original fraction?

A: 1/2                      B: 1/3                      C: 1/4                      D: 1/5                      E: 1/6

**Q15:** (1 mark) If  $x^2$  is larger than 9, which of the following is true?

A:  $x > 0$                       B:  $0 > x$                       C:  $x=0$                       D:  $x^3 > 0$                       E: Insufficient information to determine a solution

**Q16:** (1 mark) If you wrote down all the numbers from 5 to 83, how many times would you write the number 4 ?

A: 10 times    B: 11 times    C: 15 times                      D: 16 times                      E: 17 times

**Q17:** (1 mark) A certain box of candy can be divided (without cutting pieces) between five, seven, or thirteen people. What is the least number of pieces of candy the box could contain?

A: 25                      B: 35                      C: 455                      D: 130                      E: 169

**Q18:** (1 mark) What is the difference between 11 feet square and 11 square feet?

A: 1 sq ft    B: no difference    C: 110 sq ft                      D: 10 sq ft    E: 22 sq ft

**Q19:** (1 mark) Which discount is greater, a single discount of 12 percent or two successive discounts of 6 percent – or are they the same?

- A: single discount of 12 percent is greater    B: two successive discounts of 6 percent is greater  
 C: Both are the same    D: There is insufficient information to decide

**Q20:** (1 mark) A cube measuring four inches on each side is painted blue all over and is then sliced into one inch cubes. How many of the smaller cubes are blue on three sides ?

- A: 0    B: 4    C: 8    D: 16    E: 24

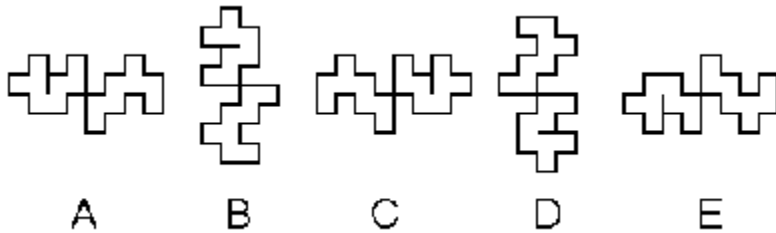
**Q21:** (1 mark) In a section of a zoo, there are many birds and animals. There are 45 heads and 150 feet. How many birds are there ?

- A: 12    B: 15    C: 20    D: 25    E: Insufficient information to determine

**Q22:** (1 mark) Today, I am six times as old as my sister. In one year, I will be five times as old as my sister will be. In six years, I will be three times as old as my sister will be. How old am I today?

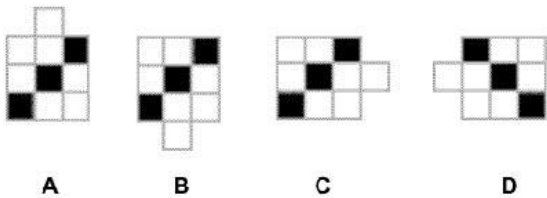
- A: 24    B: 30    C: 36    D: 42    E: 4

**Q23:** (1 mark) Which of the following figures is the odd one out ?



- A: A    B: B    C: C    D: D    E: E

**Q24:** (1 mark) Which of the following figures is the odd one out ?



- A: A    B: B    C: C    D: D    E: None of them

**Q25:** (1 mark) Which number comes next in the sequence ?

1, 3, 6, 10, 15, ?

A: 19      B: 18      C: 24      D: 21      E: 27

**Q26:** (1 mark) Library is to book as book is to \_\_\_\_\_?

A: Page      B: Copy      C: Binding      D: Cover      E: Index

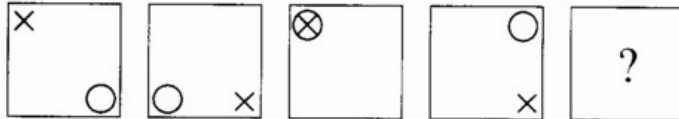
**Q27:** (1 mark) Which of the diagrams will follow this sequence?



A      B      C      D

A: A      B: B      C: C      D: D      E: None of the above

**Q28:** (1 mark) What will the next figure in the following sequence look like?



A: Same as first figure      B: Same as second figure  
C: Same as third figure      D: Same as fourth figure      E: None of the above

**Q29:** (1 mark) Pramod gets twice as large a share of the profits as any of his 3 other partners get. The 3 other partners share equally. What percent of entire profits is Pramod's ?

A: 25%      B: 30%      C: 40%      D: 50%      E: 66.6%

**Q30:** (1 mark) In a given month, Monday is the 21st day of the month. What day of the week was the 1st day of the month ?

A: Monday      B: Tuesday      C: Wednesday      D: Saturday  
E: Sunday

**Q31:** (1 mark) Which two letters come next ?

A Z B Y D W G T ? ?

A: (U,C)      B: (S, J)      C: (V, D)      D: (J, Q)      E: (K,P)

**Q32:** (1 mark) A lady and a gentleman are sister and brother. We do not know who is older. Someone asked them: Who is older? The sister said: I am older. The brother said: I am younger. At least one of them was lying. Which if the following is correct?

A: The brother is older      B: The sister is older      C: Both are the same age  
D: It is not possible to determine

**Q33:** (1 mark) What is the result of multiplying all figures from 0 to 6 ?

- A: 620      B: 720      C: 820      D: 0      E: 6

**Q34:** (1 mark) Which of the following is least like the others?

Cube, Sphere, Pyramid, Cylinder, Circle

- A: Cube      B: Sphere      C: Pyramid      D: Cylinder      E: Circle

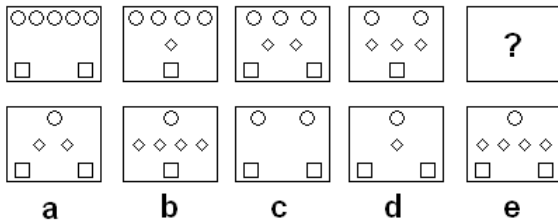
**Q35:** (1 mark) A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?

- A: 20%      B: 24%      C: 30%      D: 33%      E: 36%

**Q36:** (1 mark) If you rearrange the letters WOMCOS, you will have the name of a ?

- A: Plant      B: City      C: River      D: Bird      E: Animal

**Q37:** (1 mark) Which picture will logically follow ?



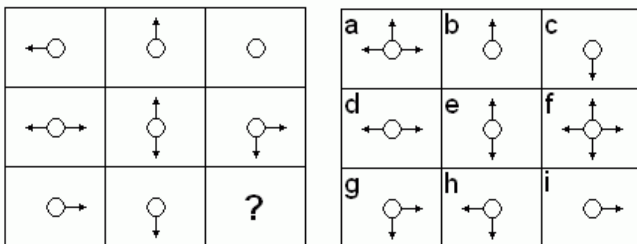
- A: a      B: b      C: c      D: d      E: e

**Q38:** (1 mark) Which of the letters is least like the other four ?

T      X      L      V      Y

- A: T      B: X      C: L      D: V      E: Y

**Q39:** (1 mark) Which figure will logically follow ?



- A: d      B: g      C: h      D: i      E: c

**Q40:** (1 mark) Which two words make the best comparison \_\_\_\_\_ is to novel as painter is to \_\_\_\_\_?

- A: poet, illustration      B: book, painting      C: playwright, paint      D: book, brush  
E: writer, picture

**Q41:** (1 mark) A farmer had 17 sheep. All but 9 died. How many live sheep were left ?

A: 17      B: 9      C: 8      D: 26      E: Not possible to determine

**Q42:** (1 mark) Divide 30 by half and then add 10. How much do you get ?

A: 70      B: 25      C: 40      D: 15      E: 0

**Q43:** (1 mark) Which one of the five makes the best comparison ?  
Tree is to ground as chimney is to \_\_\_\_\_?

A: Smoke      B: Brick      C: Sky      D: Garage      E: House

**Q44:** (1 mark) Which one of the four is least like the other four ?

TOUCH - TASTE - HEAR - SMILE - SEE

A: TOUCH      B: TASTE      C: HEAR      D: SMILE      E: SEE

**Q45:** (1 mark) Jack is taller than Peter, and Bill is shorter than Jack.  
Which of the following statements would be most accurate?

A: Bill is taller than Peter      B: Bill is shorter than Peter      C: Bill is as tall as Peter.  
D: Both are same height      E: It is impossible to tell whether Bill or Peter is taller

**Q46:** (1 mark) Which one of the following makes the best comparison?  
CAACCAC is to 3113313 as CACAACAC is to \_\_\_\_\_ ?

A: 13133131      B: 13133313      C: 31311131      D: 31311313      E: 31313113

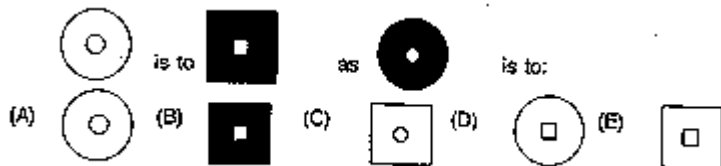
**Q47:** (1 mark) Which one of the five is least like the other four?  
COPPER - IRON - BRASS - TIN – LEAD

A: COPPER      B: IRON      C: BRASS      D: TIN      E: LEAD

**Q48:** (1 mark) John's mother sent him to the store to get 9 large cans of peaches. John could only carry 2 cans at a time. How many trips to the store did John have to make?

A: 4      B: 4 1/2      C: 5      D: 5 1/2      E: 6

**Q49:** (1 mark) Which one of the five designs makes the best comparison?



A: A      B: B      C: C      D: D      E: E

**Q50:** (1 mark) Which one of the following makes the best comparison?  
Water is to ice as milk is to \_\_\_\_\_

A: HONEY  
E: COOKIE

B: CHEESE

C: CEREAL

D: COFFEE

**Q51:** (1 mark) Suppose the hands of a clock indicate 2:40. Suppose you turned the clock upside down and then looked at its mirror reflection. What would the time in the clock approximately seem like in the mirror?

A: 2:40

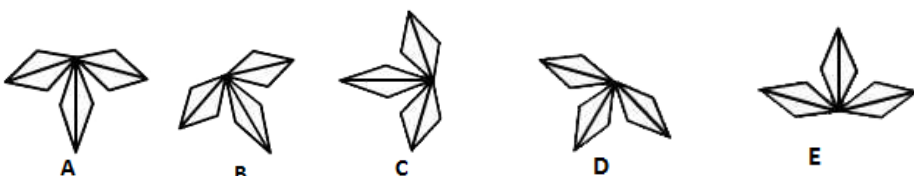
B: 8:10

C: 5:55

D: 10:20

E: 3:50

**Q52:** (1 mark) Which of the following figures would come next in the sequence below ?



A: A

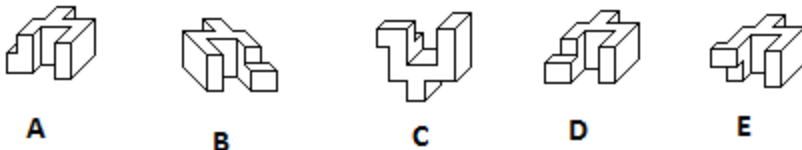
B: B

C: C

D: D

E: E

**Q53:** (1 mark) Which of the following shapes would come next in the sequence below?



A: A

B: B

C: C

D: D

E: E

**Q54:** (1 mark) There are four equally spaced beads on a circle. How many straight lines are needed to connect each bead with every other bead ?

A: 5

B: 6

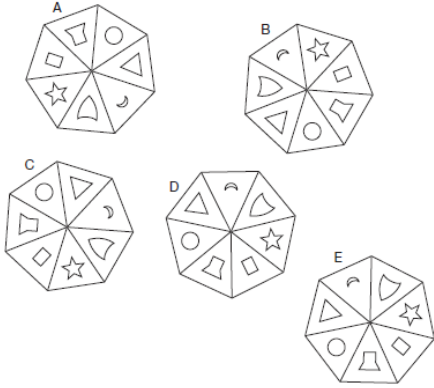
C: 7

D: 8

E: 10



**Q55:** (1 mark) Which is the odd one out ?



A: A      B: B      C: C      D: D      E: E

**Q56:** (1 mark) Which number should replace the question mark?

13	6	11
8	?	12
9	14	7

A: 10      B: 7      C: 9      D: 11      E: 14

**Q57:** (1 mark) Suppose school starts at 9 am. If each period is 40 minutes, and there are 5 minutes between periods. When will the fourth period end?

A: 11:40      B: 11:45      C: 11:50      D: 11:55      E: 12:00

**Q58:** (1 mark) Suppose you had a long stretch of fencing with which you want to make a big playpen for your puppy Sam. If you wanted to give Sam the biggest possible area to roam around in, what shape should the fence be ?

A: Rectangle      B: Square      C: Circle      D: Triangle      E: Octagon

**Q59:** (1 mark) A town has 20000 people living in it. Five percent of them are one legged, and half of the rest go barefoot. How many shoes are worn by people in the town?

A: 10000      B: 15000      C: 20000      D: 25000      E: 30000

**Q60:** (1 mark) While travelling in Russia, I bought six comic books for a total of seventeen rubles. Some of the comics cost one ruble, others cost two rubles, while the most expensive ones sold for ten rubles each. How many of the two rubles comics did I buy?

A: 1      B: 2      C: 3      D: 4      E: 5

# SECTION 2

ALL QUESTIONS IN THIS SECTION ARE OF 2 MARKS

**Q61:** (2 marks) If a team wins 60% of the games held in the first third of a season, what percentage of the remaining games must it win to finish the season having won 80% of the games?

A: 70%      B: 75%      C: 80%      D: 90%      E: 50 %

**Q62:** (2 marks) Mary's father has five daughters: 1. Nana, 2. Nene, 3. Nini, 4. Nono. What is the name of the fifth daughter?

A: Nani      B: Nina      C: Nancy      D: Mary      E: Nunu

**Q63:** (2 marks) A certain blend of grass seed is made by mixing brand A at Rs. 9 a kg with Brand B at Rs 4 a kg. If the blend is worth Rs. 7 a kg, how many kg of Brand A are needed to make 40 kgs of the blend. ?

A: 20 kg      B: 22 kg      C: 24 kg      D: 28 kg      E: 30 kg

**Q64:** (2 marks) If  $DG = 53$  and  $FT = 406$  then what does  $TC$  equal ?

A: 100      B: 79      C: 13      D: 203      E: 29

**Q65:** (2 marks) Seventy eight percent of all people are gum chewers, and 35 percent of all people are under the age of fifteen. Given that a person has been selected at random, what is the probability that the person is not a gum chewer and above age fifteen?

A: 35%      B: 78.5%      C: 42.4%      D: 14.3%      E: 100%

**Q66:** (2 marks) There was a large herd of 1 million animals migrating in the African plains. 80% had stripes on their backs. 650,000 had a stripe between their heads. 950,000 had striped legs, and 750,000 had striped tails. What is the minimum number of animals that were striped in all four areas?

A: 150,000      B: 250,000      C: 650,000      D: 750,000      E: Impossible to calculate

**Q67:** (2 marks) Water from a cold tap takes 30 minutes to fill a 600 litre bath. From a hot tap, it will take 40 minutes. The full bath takes 50 minutes to empty after opening the plug. If the bath is empty and the plug is open, and both the hot and cold taps are turned on, how long will it take to fill the bath?

A: approx 23 minutes      B: approx 26 minutes      C: approx 35 minutes      D: approx 45 minutes  
E: It will never fill up

**Q68:** (2 marks) What is the missing letter in the following sequence?

A, F, H, K, ?, Y, Z

A: Q            B: M            C: R            D: L            E: N

**Q69:** (2 marks) In a room there is a man and a woman. The man's mother-in-law and the woman's mother-in-law are mother and daughter. What is the man's relationship to the woman?

A: Woman's brother            B: Woman's father            C: Woman's son  
D: Woman's uncle            E: Woman's father-in-law

**Q70:** (2 marks) While reading a certain newspaper, you notice that four pages of one section are missing. One of the missing pages is 13. The back page of this section is 40. What are the other three missing pages?

A: 14, 27, 28            B: 12, 29, 30            C: 14, 25, 26            D: 14, 29, 30  
E: 12, 25, 26

**Q71:** (2 marks) If  $A = 2$  and  $B + P + F = 24$ , what is the values of S. All numbers are whole numbers ?

$$\begin{aligned} A + B &= Z \\ Z + P &= T \\ T + A &= F \\ F + S &= Q \\ Q - T &= 7 \end{aligned}$$

A: 12            B: 14            C: 2            D: 19            E: 5

**Q72:** (2 marks) What is the next number in this series ?

0 2 4 6 8 12 12 20 16 ?

A: 18            B: 22            C: 24            D: 26            E: 30

**Q73:** (2 marks) Three friends Jim, Sam and Tom were playing in the garden and one of them broke a pot. While enquiring about it the three friends answered as follows:

Jim: I haven't broken the pot.  
Sam: I haven't broken the pot.  
Tom: Sam has broken the pot.

If only one of them is speaking the truth, then who broke the pot?

A: Jim            B: Sam            C: Tom  
D: Jim & Sam broke the pot together            E: Insufficient information to determine

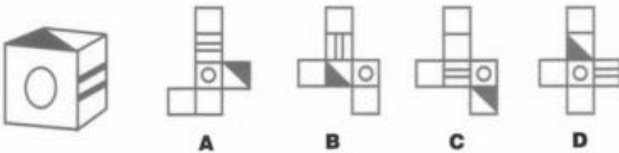
**Q74:** (2 marks) When red is X, green is Y. When green is not Y, blue is Z. But blue is never Z as long as red is X. Therefore which one of these statements is correct?

A: While blue is Z, green is Y            B: While red is not X, blue is not Z  
C: While green is not Y, red is not X            D: While blue is Z, red is not X  
E: All the above statements are false

**Q75:** (2 marks) There are five children in the Purohit family. Ashwin's sister Bela is younger than Chandran, who is older than Deepti. Deepti has one older brother and a younger sister but her youngest brother Eshwar is not the "baby" of the family. In what order are the children from eldest to youngest. ?

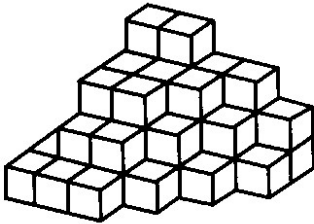
- A: Chandran, Deepti, Ashwin, Eshwar, Bela
- B: Deepti, Chandran, Ashwin, Bela, Eshwar
- C: Chandran, Deepti, Ashwin, Bela, Eshwar
- D: Chandran, Ashwin, Deepti, Eshwar, Bela
- E: Chandran, Eshwar, Ashwin, Deepti, Bela

**Q76:** (2 marks) Which of the 4 choices given can be folded to form the cube ?



- A: C only
- B: B only
- C: C & D
- D: A & B
- E: B & C

**Q77:** (2 marks) How many individual cubes are in this stack of cubes? Assume that all rows and columns are complete unless you actually see them end?



- A: 45
- B: 46
- C: 47
- D: 48
- E: 49

**Q78:** (2 marks) There are 10 krits in a flig, 6 fligs in a crat, 5 crats in a wirp, and 7 wirps in a nood. What is the number of krits in a nood divided by the number of fligs in a wirp?

- A: 70
- B: 35
- C: 12
- D: 140
- E: 350

**Q79:** (2 marks) At some point in the year, only one mushroom is safe to be eaten and the other three are poisonous at that time. What is the color of the safe mushroom?

- Purple: Only and always poisonous if Red mushrooms are.
- Yellow: Poisonous 6 months of the year.
- Green: Always and only safe if Purple mushrooms are poisonous.
- Red: Safe to be eaten 6 months of the year?

- A: Purple
- B: Yellow
- C: Green
- D: Red
- E: At no point is only one mushroom safe

**Q80:** (2 marks) How many minutes is it before 12 noon if 32 minutes ago it was three times as many minutes past 9 am ?

- A: 32 minutes
- B: 48 minutes
- C: 37 minutes
- D: 51 minutes
- E: 59 minutes