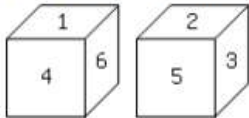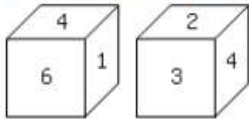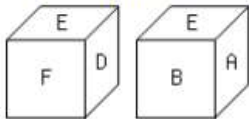# Dice and Cube, Distance Directions

(1) Faces of a cube are marked with 1,2,3,4,5 and 6. Two views of cube are as shown below, if face 4 is opposite to face 2, what will be there on the bottom when 6 is at the top?
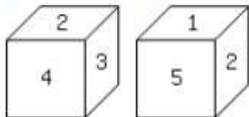

(2) Faces of a cube are marked with 1,2,3,4,5 and 6. If two views of cube are as shown below, what will be there on the face opposite to face 6?
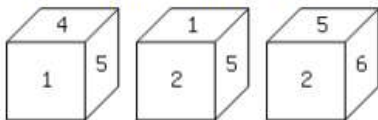

(3) Faces of a cube are marked with A,B,C,D,E and F. If two views of cube are as shown below, what will be there on the top when F is at the bottom?
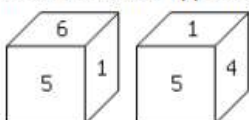

(4) Faces of a cube are marked with 1,2,3,4,5 and 6. If two views of cube are as shown below, what will be there on the bottom when 2 is at the top?

(5) Faces of a cube are marked with 1,2,3,4,5 and 6. If three views of cube are as shown below, what will be there on the face opposite to face 5?

(6) Faces of a cube are marked with 1,2,3,4,5 and 6. If two views of cube are as shown below, what will be there on the face opposite to face 6 ?

(7) Faces of a cube are marked with 1,2,3,4,5 and 6. If two views of cube are as shown below, what will be there on the bottom when 5 is at the top?
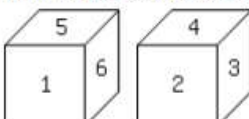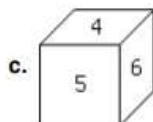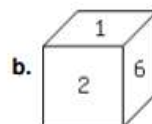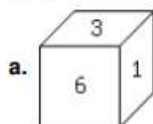

a. 6

b. 4

c. 1

d. Cannot be determined

(8) A die has numbers 1 to 6, such that sum of opposite faces are always 7. Which is the correct view of die ?

a.

b.

c.

Dice and Cube, Distance Directions

Q1. Ram walks 15 km in East then he turn to his right and travels 10 km then again turns to his right. Now in which direction is he from his starting point?

    1. South   2.Sout East   3. West   4. East   5. None of these

Q2. Gaurav starts walking in the North direction and travels 5 km then he turns to his left and walks 10 km and then he turns to his left and covers the distance of 5 km. Now how far is he from his starting point?

    1. 5 km   2. 20 km   3. 10 km   4. 15 km   5. None of these

Q3. Moin started walking towards south and after covering 5 km he turned to the left and covered 3 km. After that he turned to the right and cover 5 km. Now towards which direction Moin is facing now?

    1. North-East   2. South   3. North   4. South-East   5. None of these

Q4. Hemant travels 10 km towards North then turns left and travels 4 km and the he turns to his right and covers another 5 km. He then turns to his right and travels another 4 km. How far is he from the point of starting his journey?

    1. 10 km   2. 15 km   3. 5 km   4. 25 km   5. None of these

Q5. Deepak walks 9 m towards south then he turns to his right and moved 5 m then he turns to his right and moves 4 m. at last he turns to his left and moves 7 m. Then how far is he from starting point and in which direction?

    1. 15 m South-West   2. 7 South-West   3. 15 m West   4. 15 m North-West   5. None of these

Q6. Rahul walks 30 meters towards south. Then turns to his right and stars walking straight till he completes another 30 meters. Then again turning to his left he walks for 20 meters. He then turns to his left and walks for 30 meters. How far is he from his initial position?

    1. 50 meters   2. 30 meters   3. 10 meters   4. 60 meters   5. None of these

Q7. A puppy was trying to find its mother. She was facing east and walked for 10 metres. It turned south and walked another 10 meters. And moved west for 10 meters. In which direction is it from the original position and how far?

    1. 60 m North-East   2. 10 m North-East   3. 8 m North   4. Can't be determined

    5. None of these

Q8. Mr. Vivek walked 6 meters towards North-East and then turned towards South-East and walked 6 meters. Then he moves 2 meters South and 4 meters West. What is the straight distance between the point he started and finally reached?

    1. 12 meters   2. 14 meters   3. 4 meters   4. 2 meters   5. None of these

Q9. Ram walks to 10 meters towards east, then turns towards north and walked 15 meters and then after turning to the west he walks 10 meters and he turns towards south walks 15 meters. How far is he from starting point?

    1. 0 meters   2. 2 meters   3. 4 meters   4. 5 meters   5. None of these

Q10. A mat starts walking from his office and goes 5 km towards East. Then, he turns to the left and again walks for 3 km. Again, he turns left and walk 5 km. At what distance is he from the starting point?

    1. 3 km   2. 4 km   3. 6 km   4. 7 km   5. None of these

Q11. Anuradha walks 3 km towards North and then she turns left and moves 2 km. She again turns left and covers 3 km and turns to her right and starts walking straight. In which direction is she walking now?

    1. North   2. East   3. South   4. West   5. None of these

Q12. In an evening when Suraj started walking from his house, his shadow was exactly towards his right. He walked 6 km. Then he turned to his right and moved 13 km. How far is he and in which direction from the starting point?

    1. 15 km North-East   2. 15 km North   3. 15 km South-East   4. 16 km South   5. None of these

Direction for (Q13 to Q16): *The following questions cure based on the information given below:*

    1.   All the faces of cube are painted with red colour.

    2.   The cube is cut into 64 equal small cubes.

Dice and Cube, Distance Directions

Q13. How many small cubes have only one face coloured ?

    1.   4   2.   8   3.   16   4.   24

Q14. How many small cubes have no faces coloured ?

    1.   24   2.   8   3.   16   4.   0

Q15. How many small cubes are there whose three faces are coloured ?

    1.   4   2.   8   3.   16   4.   24

Q.16 How many small cubes are there whose two adjacent faces are coloured ?

    1.   0   2.   8   3.   16   4.   24

Direction for (Q17 to Q19): Read the following information carefully and answer the questions given below.:

    1.   A cube has six sides each of a different colour

    2.   The red side is opposite to black

    3.   The green side is between red and black

    4.   The blue side is adjacent to white

    5.   The brown side is adjacent to blue

    6.   The red side is facing downwards.

Q17. The side opposite to blue is____?

    1.   Green   2.   Black   3.   White   4.   Can't be determined

Q18. The four colours adjacent to green are____?

    1.   Red, Black, Blue and White   2.   Red, Black, Brown and Blue

    3.   Red, Black, Brown and White   4.   Black, Blue, White and Red

Q19. The side opposite to white is____?

    1.   Red   2.   Black   3.   Brown   4.   Can't be determined

Direction for (Q20 and Q21): Read the following information carefully and answer the questions given below.

    (i)   All the faces of cubes are painted with red colour.

    (ii)   The cubes are cut into 125 equal small cubes of side 1 cm.

Q20. How many small cubes have only one face coloured?

    1.   27   2.   8   3.   54   4.   24

Q21. How many small cubes have no faces coloured ?

    1.   24   2.   27   3.   8   4.   0

Direction for (Q22 and Q23): Read the following information carefully and answer the questions given below:

All the opposite faces of a big cube are coloured with red, black and green colours. After that is cut into 64 small

equal   cubes of 1 cm each.

Q22. How many small cubes are there where one face is green and other one is either black or red?

    1.   28   2.   8   3.   16   4.   24

Q23. How many small cubes are there whose no faces are coloured?

    1.   8   2.   4   3.   0   4.   16