Question 1:The angle of elevation of a ladder leaning against a wall is 60 degrees and the foot of the ladder is 4.6 m away from the wall.
What is the width of the Ladder?
Answer: The distance from wall to ladder and the ladder will make cosine angle. So, cos60° =4.6/width of ladder.
1/2=4.6/ ladder width. Hence ladder width=9.2m.

Question 2: How much time will it take for an amount of Rs. 450 to yield Rs. 81
as interest at 4.5% per annum of simple interest?
Answer :Given, Principal = Rs. 450, Rate of interest =4.5% and simple interest = Rs. 81
Simple interest = PRT/100
□ 81=450×4.5×T/100
□ 81×100=450×4.5×T
□ T=4 years

Question 3: Rajeev buys good worth Rs.6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%.
Find the amount he will have to pay for the goods.
Answer : Rebate=6%,MP=Rs.6650
SP=94%×6650=Rs.6251
Sales tax=10%
Total amount Rajeev pays=10%×6251+6251=Rs.(625.1+6251)= Rs.6876.10.

Question 4: A trader mixes 26 kg of rice at Rs.20 per kg with 30 kg of rice of
other variety at Rs.36 per kg and sells the mixture at Rs.30 per kg.
His profit percentage:
Answer : =(S.P−C.P)/C□ P×100%
=(1680−1600)/1600×100%
=80/1600×100%
=1/20×100%
=5%

Question 5 :what will be the day of the week 15th agust 2010?
Answer : Sunday.

Question 6 : find the odd man out 41, 43, 47, 53, 61, 71, 73, 81?
Answer : 81(non prime number)

Question 7 : The sum of the present ages of a father and his son is 60 years.
Six years ago father's age was five times the age of the son After six years son's age will be
Answer : Then, present age of father is (60−x).
According to the question,
□ (60−x)−6=5(x−6)
□ 54−x=5x−30
□ 54+30=5x+x
□ 84=6x
□ x= 84/6
□ x=14
□ Son's age after 6 years =(x+6)years
=(14+6)years

=20years.

Question 8:How many times in a day, are the hands of a clock in straight line but opposite in direction?
Answer : 22 Times.

Question 9: A man walked diagonally across a square lot.
Approx, what was the percent saved by not walking along the edges?
Answer : Distance along edges =2a
a= side of square lot
Distance along diagonal =a squareroot 2
Percentage saved =(2a-a squareroot2/2a)*100
=29.28%

Question 10 : From a pack of 52 playing cards, two cards are drawn together at random.
Calculate the probability of both the cards being the Kings.
Answer : Two cards can be drawn from a pack of 52 playing cards in 52C 2ways,
i.e., 52×51/2=1326ways
The event that two kings appear in a single draw can appear in
4C2ways, i.e., 6\> ways,
 The probability that the two cards drawn from a pack of 52 cards are kings =
6/1326 = 1/221