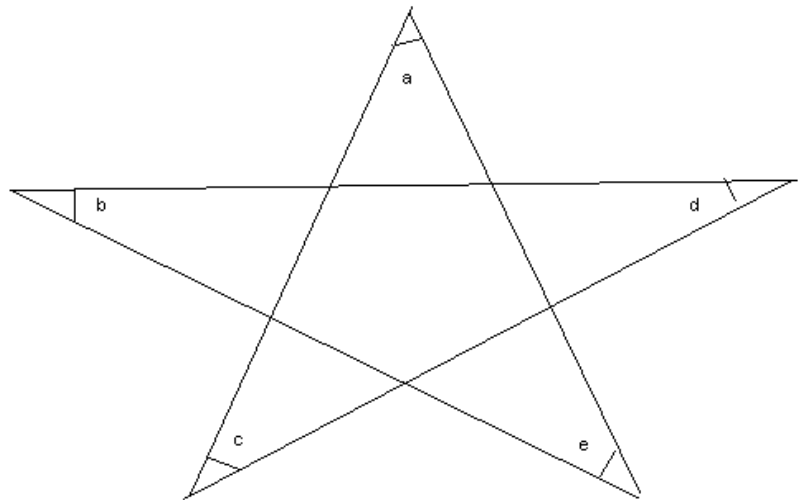*National Commerce Olympiad 2012*
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Math X

1. What is the measure, in degrees, of the angle formed by the minute and hour hands of a clock at 1:50?
    A) 60
    b) 90
    c)115
    d)120

2. Find the sum of all the given angles in the given figure.

    A)180
    B)360
    C)540
    D) 720

3. If P(2,1) and Q(8,1) are two of the vertices of a rectangle, which of the following could not be another of the vertices?
    A)(2,8)
    B)(8,2)
    C)(2,-8)
    D)(-2,8)

4. For what value of K will the equations X+2Y+7=0, 2X+KY+14=0 represent coincident lines?
    A)1
    B)2

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C)3

D)4

5. five years hence, father's age will be three times the age of his son. Five years ago, father was seven times as old as his son. Find father's present age?
    a)10 years
    b)20 years
    c)30 years
    d)40 years

6. what is the probability that the sum of two dice will yield anything but an 8?
    a)5/36
    b)1/36
    c)31/36
    d)5/18

7. Point A and B are 90 km apart from each other on a highway. A car start from 'A' and another car from 'B' at the same time. If they go in the same direction they meet in 9 hours and if they go in opposite direction they meet in 9/7 hours. Find their speeds?
    a)40km/hr and 30 km/hr
    b)50 km/hr and 30 km/hr
    c)40 km/hr and 50 km/hr
    d)40 km/hr and 70 km/hr

8. Divide 16 into two parts such that twice the square of the larger part exceeds the square of the smaller part by 164. Find length of each part/
    a)10 and 6
    b)8 and 6
    c)12 and 4
    d)9 and 7

9. Out of a group of swans, 7/2 times the square root of the total number are playing on the shore of the pond. The two remaining ones are swimming in water. Find the total number of swans?
    a)16
    b)20
    c)24

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d)26

10.   30 people are in a room. 20 of them play golf. 15 of them play golf and tennis. If everyone plays at least one of the two sports, how many of the people play tennis only?
a)3
b)4
c)5
d)10

Answar key
1.(c)   2. (a)   3. (d)   4. (d)   5.   (d)
6.(c)   7. (a)   8. (a)   9.   (a)   10. (d)