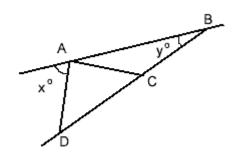
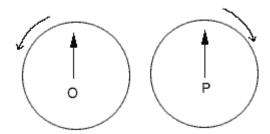
Numeric Entry Test 2

- 1. What is the sum of all the positive integer factors of 12?
- 2. The average IQ of 4 people is 110. If three of these people each have an IQ of 105, what is the IQ of the fourth person?
- **3.** Of 60 students in a class 2/3 are girls, and 2/5 of the class are taking music lessons. What is the maximum number of girls that are not taking music lessons?
- **4.** If 2 n + 1 = 8, what is the value of n?



(figure not to scale)

- **5.** In the figure above, AD = AC = CB. If the value of y is 28, what is the value of x?
- **6.** One gallon of fuel mixture contains antifreeze in the ratio of 5 parts fuel to one part antifreeze. To this is added half a gallon of mixture which is one third antifreeze and two thirds fuel. What is the ratio of fuel to antifreeze in the final mixture? (Grid your answer as a fraction: fuel/antifreeze)



- **7.** Two dials O and P have pointers that start from the vertical position as shown. Pointer O rotates anticlockwise at a rate of 5 degrees per second and pointer P rotates clockwise at 9 degrees per second. How many complete revolutions will P have made when O completes 335 complete revolutions?
- 8. What is the total surface area of 2 identical cubes which together have a volume of 1458 units?
- **9.** N {12,18,2,6}

P {1,4,2,3}

If n and p are to be selected at random from sets N and P respectively, what is the probability that n/2p will be a member of set P?

10. If f(x) = (12 - x)3/2, and n = f(3), what is the value of 2n?

Answer Key

- 1. 28
- 2. 125
- 3. 36
- 4. 2
- 5. 84
- 6. 7/2
- 7. 603
- 8. 972
- 9. 3/8
- 10. 54