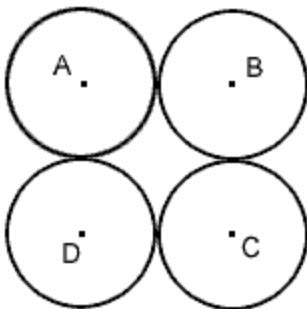


Numeric Entry Test 5

1. On a number line point A has coordinate -4 and point B has coordinate 6. What is the coordinate of point C which is midway between A and B ?
2. 60 per cent of what number is equal to 45 per cent of 80?
3. If the sum of 7 consecutive numbers is 0, what is the greatest of these numbers?
4. How many cubes with volume 8 cubic units can be cut from a cube with a surface area of 96 square units?
5. If $ab = 1$, $bc = 2$ and $ac = 8$, what is the value of abc ?



6. Four circles of diameter $\sqrt{2}$ are placed tangent to each other as shown. What is the distance AC ?
7. What is the least positive integer k for which $15k$ is the cube of a number?
8. A factory was owned by three people X, Y and Z, each having an equal share. X sold half his share to Y. Z sold one quarter of his share to Y. What fraction did Y then own?
9. Two people set off by car on a rally and take the same route which is 25 miles long. If A drives at an average speed of 50 miles per hour, and B at an average speed of 60 miles per hour, how much longer in minutes will it take A to cover the course than it takes B ?
10. If $f(x) = 3x - 2$ and $g(x) = 2x + 1$. And if $f(k) = g(k)$. What is the value of k?

Answer Key

1. 1
2. 60
3. 3
4. 8
5. 4
6. 2

7. 225
8. $7/12$
9. 5
10. 3