

STATIC ELECTRICITY PUZZLES

1. Four pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #2 pith ball is positively charged.
 - (b) #2 attracts all other pith balls.
 - (c) #1 and #3 repel each other.
 - (d) #4 attracts all other pith balls.Determine the charge on each pith ball.

2. Four pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #2 attracts all the other pith balls.
 - (b) #1 and #3 repel each other.
 - (c) #4 attracts all other pith balls and is negative.Determine the charge on each pith ball.

3. Five pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #4 attracts all except #3.
 - (b) #2 and #5 do not repel.
 - (c) #1 and #5 repel each other.
 - (d) #3 and #4 repel each other.
 - (e) #1 is negative.Determine the charge on each pith ball.

4. Five pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #3 attracts all the other pith balls and is negative.
 - (b) #5 doesn't repel #1, #2, and #4.
 - (c) #1, #2, and #4 repel each other.Determine the charge on each pith ball.

5. Four pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #1, #2, and #3 attract each other.
 - (b) #2 and #4 repel each other.
 - (c) #1 is positive.Determine the charge on each pith ball.

6. Four pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #4 attracts all the other pith balls and is positive.
 - (b) #2 and #1 repel each other.
 - (c) #3 attracts all other pith balls.Determine the charge on each pith ball.

7. Five pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #2 and #3 repel each other.
 - (b) #1 attracts #4.
 - (c) #5 is negative.
 - (d) #4 and #5 repel each other.
 - (e) #3 attracts all the pith balls except #2.Determine the charge on each pith ball.

8. Five pith balls are suspended by insulating threads. The following reactions occur.
 - (a) #4 attracts all the other pith balls and is positive.
 - (b) #2, #3, and #5 repel each other.
 - (c) #1 doesn't repel #2, #3, and #5.Determine the charge on each pith ball.