

Determine the resulting net charge of each metal sphere.

1.)

A	B	
3.0 C	12.0 C	After A and B touch: A = _____ B = _____

2.)

A	B	
-5.5 C	-1.5 C	After A and B touch: A = _____ B = _____

3.)

A	B	
10.0 C	-2.0 C	After A and B touch: A = _____ B = _____

4.)

A	B	C	
8.0 C	-4.0 C	12.0 C	A and B touch: A = _____ B = _____ C = _____
			B and C touch: A = _____ B = _____ C = _____

5.)

A	B	C	
-12.5 C	2.5 C	5.0 C	A and B touch: A = _____ B = _____ C = _____
			B and C touch: A = _____ B = _____ C = _____
			A and B touch: A = _____ B = _____ C = _____

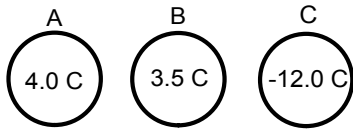
6.)

A	B	C	
6.0 C	5.0 C	9.0 C	A and B touch: A = _____ B = _____ C = _____
			B and C touch: A = _____ B = _____ C = _____
			A and C touch: A = _____ B = _____ C = _____

7.)

A	B	C	B and C touch: A = _____ B = _____ C = _____
7.0 C	-4.0 C	-15.0 C	A and B touch: A = _____ B = _____ C = _____
			A and C touch: A = _____ B = _____ C = _____
			B and C touch: A = _____ B = _____ C = _____

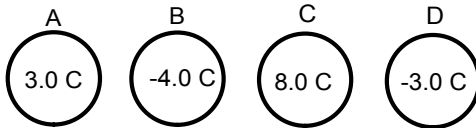
8.)



A, B, and C touch at the same time:

A = _____ B = _____ C = _____

9.)



A and D touch: A = _____ B = _____ C = _____ D = _____

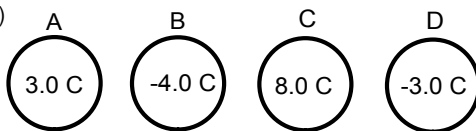
C and D touch: A = _____ B = _____ C = _____ D = _____

A and C touch: A = _____ B = _____ C = _____ D = _____

B and C touch: A = _____ B = _____ C = _____ D = _____

B and D touch: A = _____ B = _____ C = _____ D = _____

10.)



B and C touch: A = _____ B = _____ C = _____ D = _____

A and C touch: A = _____ B = _____ C = _____ D = _____

A and D touch: A = _____ B = _____ C = _____ D = _____

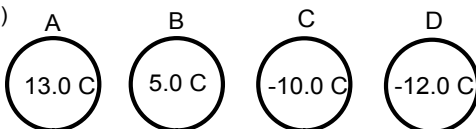
B and D touch: A = _____ B = _____ C = _____ D = _____

C and D touch: A = _____ B = _____ C = _____ D = _____

All four spheres are touched together at the same time:

A = _____ B = _____ C = _____ D = _____

11.)



B and C touch: A = _____ B = _____ C = _____ D = _____

A and C touch: A = _____ B = _____ C = _____ D = _____

B and D touch: A = _____ B = _____ C = _____ D = _____

B, C, and D touch at the same time:

A = _____ B = _____ C = _____ D = _____

A, B, and C touch at the same time:

A = _____ B = _____ C = _____ D = _____