# Electron Configuration Practice Worksheet KEY

In the space below, write the unabbreviated electron configurations of the following elements:

- sodium 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>1</sup>
- 2) iron 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>6</sup> 4s<sup>2</sup> 3d<sup>6</sup>
- bromine 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>6</sup> 4s<sup>2</sup> 3d<sup>10</sup> 4p<sup>6</sup>
- 4) barium 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s2 4d10 5p6 6s2
- 5) neptunium 1s<sup>2</sup> 2s<sup>2</sup>2p<sup>6</sup>3s<sup>2</sup>3p<sup>6</sup>4s<sup>2</sup> 3d<sup>60</sup> 4p<sup>6</sup> 5s<sup>2</sup> 4d<sup>60</sup> 5p<sup>6</sup> 6s<sup>2</sup> 4f<sup>64</sup> 5d<sup>60</sup> 6p<sup>6</sup> 7s<sup>2</sup> 5f<sup>6</sup>

In the space below, write the abbreviated electron configurations of the following elements:

- 6) cobalt [Ar] 4s<sup>2</sup>3d<sup>7</sup>
- 7) silver [Kr] 5s<sup>2</sup>4d<sup>9</sup>
- 8) tellurium [Kr] 5s24d105p4
- radium [Rn] 7s<sup>2</sup>
- 10) lawrencium [Rn] 7s25f46d1

Determine what elements are denoted by the following electron configurations:

- 11) 1s<sup>2</sup>2s<sup>2</sup>2p<sup>6</sup>3s<sup>2</sup>3p<sup>4</sup> Sulfur
- 12) 1s<sup>2</sup>2s<sup>2</sup>2p<sup>6</sup>3s<sup>2</sup>3p<sup>6</sup>4s<sup>2</sup>3d<sup>10</sup>4p<sup>6</sup>5s<sup>1</sup> Rubidium
- 13) [Kr] 5s<sup>2</sup>4d<sup>10</sup>5p<sup>3</sup> Antimony
- 14) [Xe] 6s<sup>2</sup>4f<sup>14</sup>5d<sup>6</sup> Osmium
- 15) [Rn] 7s25f11 Einsteinium

Determine which of the following electron configurations are not valid:

- 16) 1s<sup>2</sup>2s<sup>2</sup>2p<sup>6</sup>3s<sup>2</sup>3p<sup>6</sup>4s<sup>2</sup>4d<sup>10</sup>4p<sup>5</sup> should be 3d<sup>10</sup>
- 17) 1s<sup>2</sup>2s<sup>2</sup>2p<sup>6</sup>3s<sup>1</sup>3d<sup>5</sup> 3s<sup>3</sup> is impossible& "p" instead of "d"
- 18) [Ra] 7s<sup>2</sup>5f<sup>8</sup> Ra is not a noble gas
- 19) [Kr] 5s<sup>2</sup>4d<sup>10</sup>5p<sup>5</sup> Valid
- 20) [Xe] Element can't be its own electron configuration.

# <u>Electron Configuration Worksheet Vandenbout Brake</u> <u>Ch3answer Key</u>

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