**Lesson 4.2bc Homework Practice: *Proportional/Non-Proportional Functions***

**Determine if the functions below are proportional/non-proportional & increasing/decreasing**

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| **7.) y = ¾ x + 1** | **8.) xy = 10** | **9.) y + x = 3** |
| **10.)** |



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| 11.) What is the value of *x* in the equation:2*x*  15  3*x*  5?  A 2 C 4 B 3 D 5 | 15.) Which of the following lists shows the numbers below in order from **least** to **greatest**?  0.65, 6 × 104, 6 × 102, 0.065 A 6 × 104, 6 × 102, 0.065, 0.65 B 0.65, 0.065, 6 × 102, 6 × 104 C 6 × 102, 6 × 104, 0.065, 0.65 D 6 × 104, 0.065, 6 × 102, 0.65 |
| 12.) Which equation below has no solution?  A 2(2*x*  1)  4*x*  2 B 3*x*  7  *x* C 3*x*  6  *x*  2 D 5*x*  1  5*x*  3  | 16.)

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| ***x*** | 1 | 1 | 4 | 5 |
| ***y*** | 2 | 5 | 2 | 6 |

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| ***x*** | 1 | 1 | 4 | 5 |
| ***y*** | 2 | 5 | 2 | 6 |

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| 13.) How is the number below written in scientific notation?  120 A 1.2 × 101 B 12 × 101 C 1.2 × 102 D 12 × 102 |
| 14.) Which equation shows a non-proportional relationship? A *y*  2*x*  C *y*  2*x*  0 B *y*  *x* D *y*  2*x*  2 | 17.) Which of the following sets of ordered pairs does **not** represent a function? A {(1, 2), (2, 3), (4, 5), (3, 3)} B {(1, 3), (2, 3), (6, 5), (7, 3)} C {(1, 2), (1, 3), (4, 5), (3, 8)} D {(1, 2), (2, 2), (4, 2), (3, 2)} |