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| Tables and Graphs: |
| 1. Fill in the missing spots in the table  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | X | 1 | 2 |  | 5 | 7 | 11 |  | | y | 5 | 10 | 20 | 25 |  |  | 500 |   What equation relates x to y?   1. Mrs. Watson gives out 8 pencils per day. Make a table to show the relationship between days and pencils:  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |   What equation relates the number of days *d* and the number of pencils *p* she has given out?   1. Make a table for the equation *y=10x*  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |   **Bonus: Make a graph on graph paper to match the equation and table.** |
| Substitution: |
| 1. Find the value of y when x=3 for the equation *y=3x + 10* 2. Evaluate the expression if x=3 and y = 6  *3x + 2y + 7* 3. Find the value of y when x = 10 for *x2 + 2x + 70* |
| Solving Equations: |
| Solve each equation:  2. 3. 4.  6. 7. 8. |
| Simplifying Equations: |
| Use the distributive property and combining alike terms to match the equivalent expressions:   1. 3(x + 5) a) 2x + 7 2. x + x + 7 b) 3x + 8 3. 2(x + 7) c) x + x + 7 + 7 4. 3(x + 2) + 2 d) x + 2x + 15   Part 2: Create 3 equivalent expressions for each expression below:   1. 3x + 10 2. x – 5 3. 8x + 12 |
| Inequalities: |
| Write and graph an inequality for each situation below:   1. You buy a bike that was more than $75. 2. Student council wants to spend less than $100 on the school dance. 3. You are selling bracelets for $5 each and want to make more than $55 total.   Part 2: Solve each inequality below and graph the solution.   1. x + 3 > 10 2. 15 < x + 12 3. 5x > 20 |