## TNReady Math Paper/Pencil Form <br> Item Types and Answer Document

The purpose of this document is to provide guidance for districts as they prepare students for the paper and pencil version of the math portion of TNReady. Examples are provided to show how particular item types will appear in the test booklet and what students' answer sheets will look like.

## General Guidance:

- Students are allowed to write in their testing booklet. We encourage them to do so.
- Students are allowed to use highlighters in their testing booklet.
- Students are allowed to have scratch paper. Scratch paper may be lined, blank, or graph paper.
- Students are allowed to have rulers. Straight edges in many cases will be useful.
- On the calculator portions of the assessment, please provide calculators familiar to the students.
o A student may use any permitted calculator at any grade level on a calculator permitted subtest. For more direction, refer to the TNReady calculator policy found (here).
- Practice grids and graphs are provided in the testing booklet. Answers placed in the testing booklet do not count. Test booklets will not be scanned or scored. Students need to make sure that all final answers are recorded on the answer document, which is also a multiple page booklet.
- Student response documents will be shipped to the vendor and scanned. The scanned images will be uploaded into the scoring engine which will score all machine scoreable (selected response) items. Human readers will review and score the items that are not selected response.

| Multiple Choice |  |
| :---: | :---: |
| Test Book Example | Answer Document Example |
| Which statement is correct? <br> (A) $10=5+5$ means " 5 is 10 more than 5 ." <br> (B) $30=6 \times 5$ means " 30 is 6 more than 5 ." <br> (c) $14=8+6$ means " 14 is 8 times as many as 6 ." <br> (D) $12=4 \times 3$ means " 12 is 3 times as many as 4 ." | (4) (B) (C) |
| Equation Editor |  |
| Test Book Example | Answer Document Example |
| Evaluate $39-\left(11+5^{3} \div 5\right)$ | Write your answer in the box above. |
| Given: $\left(x^{\frac{2}{3}}+4 x^{\frac{1}{3}}\right)-\left(5 x^{\frac{2}{3}}-7 x^{\frac{1}{3}}\right)$ <br> Enter an expression equivalent to the given expression. | Write your answer in the box above. |


| Multiple Select |  |
| :---: | :---: |
| Test Book Example | Answer Document Example |
| Which three expressions hav <br> A. $2 \times 6$ <br> B. $5 \times 8$ <br> C. $7 \times 2$ <br> D. $4 \times 3$ <br> E. $1 \times 12$ | Select three. <br> (A) <br> (B) <br> (C) <br> (D) <br> (E) <br> \{other possible variations depending upon question\} <br> Select two. <br> (A) (B) <br> (c) <br> (D) <br> (E) <br> Select all that apply. <br> (A) (B) (C) (D) <br> (E) |
| Matching |  |
| Test Book Example | Answer Document Example |
| Draw lines to match each n $\begin{aligned} & 13,102 \\ & 2,310 \\ & 13,210 \\ & 2,013 \end{aligned}$ | 13,102 $(2 \times 1.000)+(1 \times 10)+(3 \times 1)$ <br> 2,310 $(2 \times 1,000)+(3 \times 100)+(1 \times 10)$ <br> 13,210 $(1 \times 10,000)+(32 \times 100)+(1 \times 10)$ <br> 2.013 $(13 \times 1,000)+(1 \times 100)+(1 \times 2)$ |




| Test Book Example | Answer Document Example |
| :---: | :---: |
| Graph the solution to the inequality $3(x+2) \geq 5 x$ on the number line. |  <br> \{draw answer on number line\} |
| Test Book Example | Answer Document Example |
| The function $f(x)=2 x^{2}-6 x-9$ represents a parabola. <br> Use the grid to plot points for the x-intercept(s), y-intercept(s), and either the maximum or minimum point, whichever exists, to the nearest tenth. <br> Practice Grid |  <br> \{draw answer on grid\} |


| Test Book Example |  |  | Answer Document Example |
| :---: | :---: | :---: | :---: |
| The transformation $\left(x^{\prime}, y^{\prime}\right)=(x+2, y$ Use the grid to create P'Q'R'S'. <br> Practice Grid | $y-3$ ) is appli | d to figure PQRS. |  <br> \{draw answer on grid\} |
| Drag and Drop |  |  |  |
| Test Book Example |  |  | Answer Document Example |
| Sort each equation to the correct colu has. | column show <br> One Real Solution $\begin{aligned} 0-x^{2}+4 x-8 & =0 \\ x^{2}+6 x+9 & =0 \end{aligned}$ <br> Practice Cha | ng the number of unique solutions it <br> No Real Solutions $-x^{2}+5 x=0$ $x^{2}+25=0$ <br> rt |  <br> \{write each equation in the appropriate column\} |


| Drop Down Menu |  |
| :---: | :---: |
| Test Book Example | Answer Document Example |
| The expression $8750(1.03)^{\times}$represents the number of people that visit at an exhibit in year $x$. <br> Select the correct choice for each box to make a true statement. <br>  | Box W <br> Box Y |

