# College and Career Readiness Mathematics 

## Scoring Rubric <br> (Draft)

| Short Tasks |  |  |  |
| :--- | :--- | :--- | :--- |
| Q | Answer | Points |  |
| 1 | $5-2 \sqrt{6}$ | 1 |  |
| 2 | $x^{-2.5}$ | 1 |  |
| 3 | 40 | 1 |  |
| 4 | 4 | Sketch showing curve, slight peak between 1 \& 2s to, zero at 4s and <br> subsequent rise. <br> 5 | 1 |


| T-shirt Sale | Rubric |  |  |
| :--- | :--- | :---: | :---: |
|  |  | Points | $\begin{array}{l}\text { Section } \\ \text { points }\end{array}$ |
| 1. | Gives correct answer: $\$ \mathbf{2 . 4 7}$ | 2 |  |
|  | Shows correct work such as: $3.99+6.99+5.99=16.97$ |  |  |
| $16.97-14.50$ |  |  |  |$)$


| Glasses |  | Rubric |  |
| :---: | :---: | :---: | :---: |
|  |  | Points | Section points |
| 1. Gives correct answer: $\mathbf{3} \sqrt{\mathbf{3}}$ or $\mathbf{5 . 2} \mathrm{cm}$ Shows work such as: $h^{2}=6^{2}-3^{2}$ |  | $1$ | 2 |
| 2.(a) Gives correct answer: $\mathbf{3 7 . 5} \pi$ or $\mathbf{1 1 8} \mathrm{cm}^{3}$ <br> (b) Gives correct answer: $\mathbf{4 5} \pi$ or $\mathbf{1 4 1} \mathrm{cm}^{3}$ <br> Shows correct work such as: $\pi \times 3^{2} \times 3+2 / 3 \pi \times 3^{3}$ <br> (c) Gives correct answer: $\mathbf{1 5 . 6} \pi$ or $\mathbf{4 9}$ or $9 \sqrt{ } \mathbf{3} \pi \mathrm{~cm}^{3}$ |  | $\begin{array}{r} 1 \\ 1 \\ 1 \\ 1 \mathrm{ft} \end{array}$ | 4 |
| 3 Gives correct answer: $\mathbf{3 . 5} \mathrm{cm}$ Shows work such as: $\begin{aligned} & 45 \pi \div 2=22.5 \pi \\ & 22.5 \pi-18 \pi=4.5 \pi \\ & \pi \times 3^{2} \times \mathrm{h}=4.5 \pi \\ & \mathrm{~h}=0.5 \end{aligned}$ |  | 1 <br> 3 ft | 4 |
|  | Total Points |  | 10 |


|  | Table Tiling | Rubric |  |
| :---: | :---: | :---: | :---: |
|  |  | Points | Section points |
| 1. | Gives correct answers: <br> For a 40 cm by 40 cm square she will need: <br> 25 Whole tiles <br> 12 Half tiles <br> 4 Quarter tiles | 2 <br> 2 <br> 1 | 5 |
| 2. | Gives correct answers: <br> Partial credit <br> Gives rule: the differences increase by 4 each time <br> Half tiles <br> 4(n-1) <br> or <br> 4(x/10-1) <br> Partial credit <br> Gives rule: Add 4 to the previous result <br> Quarter tiles <br> 4 | 2 <br> (1) <br> 2 <br> (1) <br> 1 | 5 |
|  | Total Points |  | 10 |



| Cross Totals | Rubric |  |  |
| :---: | :---: | :---: | :---: |
|  |  | Points | Section points |
| Gives correct answers: <br> Possible totals are 23, 24, 25, 26, (27) <br> Partial credit <br> Gives 3 more correct totals <br> Gives 2 more correct totals <br> 23 is smallest possible total with 1 in the middle square. <br> 27 is biggest possible total with 9 in the middle square. <br> An even number in the middle square is impossible. <br> Proof <br> Gives correct reasons such as: <br> The total for numbers 1 through 9 is 45 . <br> If the the magic total is $T$, say <br> $2 \mathrm{~T}=45+$ the middle number. <br> So, the middle number must be odd , that is $1,3,5,7$ or 9 <br> These middle numbers are all possible. |  | 3 <br> (2) <br> (1) <br> 1 <br> 1 <br> 1 <br> 4 | 10 |
|  | Total Points |  | 10 |

