### 8.1b Homework: Areas of Irregular Shapes

1. The following shapes have been drawn on square dot paper. The distance between each dot represents one unit. Use what you have learned about area to find the area of each shape (A-J).



Solve the following area problems.

|  |  |
| --- | --- |
| 2. A rectangular field with two semi-circles at each of the shorter ends of the field measures 100 yards long and 40 yards wide. It is surrounded by a track that is 5 yards wide. Find the area of the field which includes the two semi-circles on each of the shorter ends of the rectangle. Find the area of the track. |  |
| 3. Laura is painting a sign for the new Post Office. She will paint the triangular portion blue and the lower rectangular portion red. Find the area of sign that she will paint blue. What percent of the sign will be in blue? |  |

Spiral Review

1. Simplify the following:

1. Simplify the following expressions:





1. Anya and Bartholomew clean windows. Anya charges 50 cents per window plus $10 per job. Bartholomew charges 90 cents per window plus $6 per job. If on one job, they make the same amount of money, how many windows did they each clean?

|  |  |
| --- | --- |
| Land on side | Land on top or bottom |
| 9 | 11 |