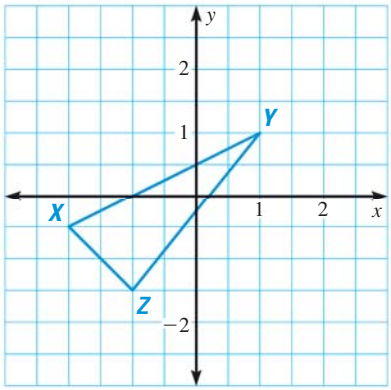
4 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 6

1. Triangle XYZ has coordinates $X(-2, -0.5)$, $Y(1, 1)$, and $Z(-1, -1.5)$. What will be the new coordinates of point X if the triangle is translated 2 units to the right and 3 units up?



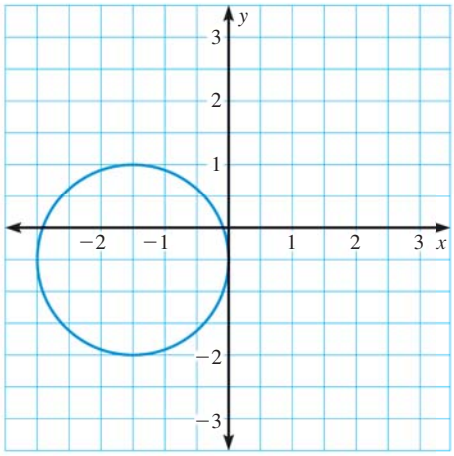
A (0, 2.5)

B (0, 3.5)

C (1, −2.5)

D (−0.5, 1)

2. A circle with a radius of 1.5 is shown below.



What are the coordinates of the center of the circle?

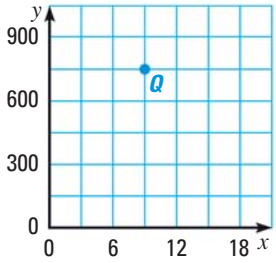
F (−1.5, 0)

G (−1.5, −0.5)

H (−1, −1)

J (1.5, 0.5)

3. Which coordinates best represent point Q?



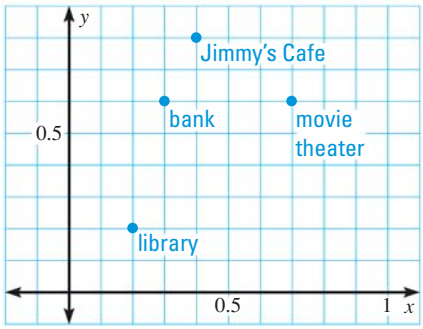
A (9, 700)

B (9, 750)

C (10, 750)

D (12, 750)

4. A section of a city is represented below on a grid. Which coordinates best represent the location of Jimmy's Cafe?



F (0.4, 0.7)

G (0.4, 0.8)

H (0.5, 0.8)

J (0.8, 0.4)

MIXED TAKS PRACTICE

5. The length and width of a rectangle are tripled. What is the ratio of the rectangle's original area to its new area? *TAKS Obj. 8*

A 1 : 3

B 1 : 6

C 1 : 9

D 1 : 27