

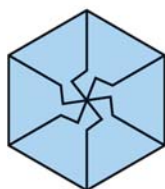
10 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 6

1. Borders for a bedroom wall can be created using transformations of a stencil. Which border is created using a translation and a rotation of the previous stencil in the pattern?



2. A new tile pattern is being designed for a kitchen floor. Which transformation is used to create the tile pattern shown?



- F** Reflection
G Rotation
H Translation
J Dilation
3. $\angle A$ and $\angle B$ are vertical angles and $m\angle A$ is x . Which equation can be used to find y if $y = m\angle B$?
- A** $y = x$
B $y = 90 + x$
C $y = 90 - x$
D $y = 180 - x$

4. Start with a circle having a diameter of 1 unit. In each iteration, perform the following steps for the diameter of each circle resulting from the previous iteration.

Step 1: Divide the diameter into two equal segments.

Step 2: Draw new circles, each with the new diameter.

What fraction of the area of the circle with a diameter of 1 unit is the area of the smallest circle created in the third iteration?

- F** $\frac{1}{128}$
G $\frac{1}{64}$
H $\frac{1}{16}$
J $\frac{1}{4}$

MIXED TAKS PRACTICE

5. How does the graph of $y = x^2 + 3$ differ from the graph of $y = x^2 - 5$? **TAKS Obj. 5**
- A** The graph of $y = x^2 + 3$ is wider than the graph of $y = x^2 - 5$.
B The graph of $y = x^2 + 3$ is narrower than the graph of $y = x^2 - 5$.
C The graph of $y = x^2 + 3$ is 8 units above the graph of $y = x^2 - 5$.
D The graph of $y = x^2 + 3$ is 2 units below the graph of $y = x^2 - 5$.
6. A diameter of a circle has endpoints $(-3, 4)$ and $(-2, -3)$. About how long is a radius of the circle? **TAKS Obj. 7**
- F** 2.5 units
G 3.5 units
H 5.1 units
J 7.1 units