

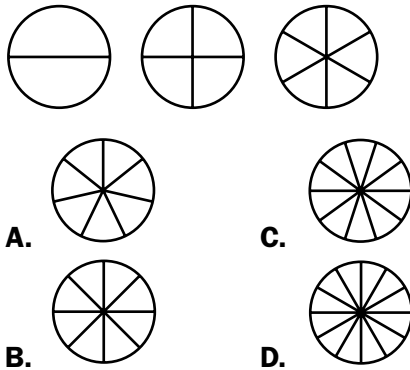
FCAT Diagnostic Test 1

Use Exs. 1-44 to assess Grade 10 FCAT benchmarks only.

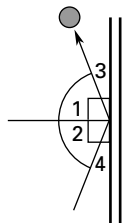
Use Exs. 1-52 to assess the content of the complete Geometry course.

Record your answers on the separate answer sheets.

1. Mike drew the figures below. If he continues the pattern, which figure will he draw next?



2. A billiards ball bounces off the side rail so that $\angle 1$ and $\angle 2$ are congruent, and the sum of their measures is 136° . Find the measure of $\angle 4$.

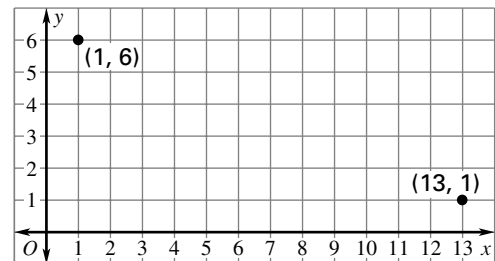


- F. 19° H. 34°
G. 22° I. 68°
3. Which of the following is NOT a true statement about the expression $-|-38| + (-6)^2$?
- A. It is equivalent to $6^2 - 38$.
B. Its value is less than $(-6)^2$.
C. It is equivalent to $-38 + (-36)$.
D. Its value is less than zero.

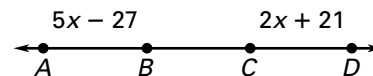
4. Evaluate the expression $(7 + 3)^2 - 4 \cdot 2$.

- F. 8
G. 28
H. 92
I. 192

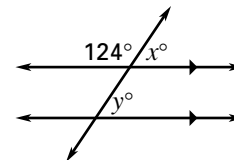
5. If Joseph located his school at $(1, 6)$ on a coordinate plane, his house would be located at $(13, 1)$. If each unit is equal to $\frac{1}{4}$ of a mile, what is the distance in miles between his house and the school?



6. If $\overline{AB} \cong \overline{BC}$ and $\overline{CD} \cong \overline{BC}$, then what is the value of x ?



7. In the diagram, what is the value of y ?



8. Find the value of x that makes $r \parallel s$.

