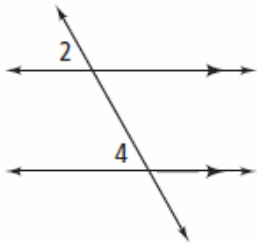


Geometry Blizzard Bag # 1

Name _____ Class _____ Date _____

Cumulative Review

Chapters 1–3

- What is the slope of a line parallel to $-8x + y = 2$?
 (A) 8 (B) $\frac{8}{-1}$ (C) $-\frac{1}{8}$ (D) $\frac{1}{8}$
 - Given right $\triangle ABC$ with $m\angle B = (3x + 10)$ and $m\angle A = x$, if $\angle C$ is the right angle, what is the value of x ?
 (F) 90 (G) 75 (H) 45 (I) 20
 - Segment \overline{AB} contains midpoint P . Which does *not* properly name the line containing \overline{AB} ?
 (A) \overleftrightarrow{AB} (B) \overleftrightarrow{PA} (C) \overleftrightarrow{APB} (D) \overleftrightarrow{BA}
 - Given $m\angle 2 = 50$, which postulate or theorem proves $m\angle 4 = 50$?
 (F) Alternate Interior Angles Theorem
 (G) Corresponding Angles Theorem
 (H) Parallel Postulate
 (I) Same-Side Interior Angles Postulate
- 
- A segment has a midpoint $(-2, 9)$ and one endpoint $(2, 8)$. What is the coordinate of the other endpoint?
 (A) $(-6, 10)$ (B) $(-4, 10)$ (C) $(-2, 0.5)$ (D) $(0, 8.5)$
 - Find the radius of a circle with an area of $27\pi \text{ cm}^2$.
 (F) $3\sqrt{3} \text{ cm}$ (G) $2\sqrt{7} \text{ cm}$ (H) 13.5 cm (I) 27 cm
 - If Joe turns off his alarm, then he sleeps too late. If Joe sleeps too late, then he misses his bus. Joe catches the bus. What can you conclude?
 (A) Joe slept too late.
 (B) Joe's mom woke him up.
 (C) Joe did not turn off his alarm.
 (D) Joe set his alarm for the correct time.
 - What is the sum of the measures of the exterior angles of an equilateral triangle?
 (F) 90 (G) 180 (H) 360 (I) 900
 - $\angle A$ and $\angle B$ are supplementary congruent angles. What is $m\angle B$?
 (A) 45 (B) 60 (C) 90 (D) 180

10. Find $m\angle B$ in the triangle at the right.

11. What is the measure of the complement of 27° ?

12. Find the area of triangle DEF with the following coordinates: $D(3, 6)$, $E(-2, -1)$, and $F(-9, 4)$.

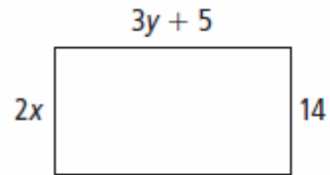
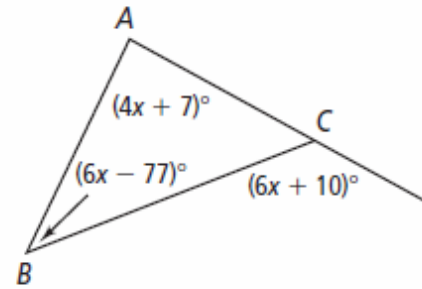
13. The rectangle at the right has a perimeter of 68. What are the values of x and y ?

14. Write an equation of the line that connects the points $A(1, 3)$ and $B(4, -9)$.

15. What property does the following conditional statement illustrate?

If $\angle A \cong \angle B$ and $\angle B \cong \angle C$, then $\angle A \cong \angle C$.

16. Write a statement that illustrates the Reflexive Property of Congruence.



17. Given: $m \parallel n$

Prove: $m\angle 1 + m\angle 7 = 180$

Statements	Reasons

