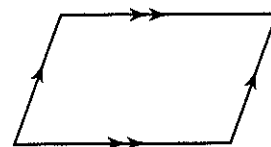
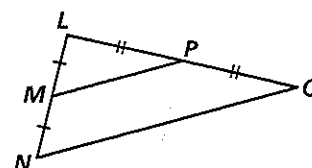
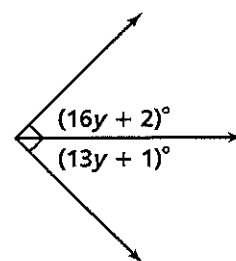
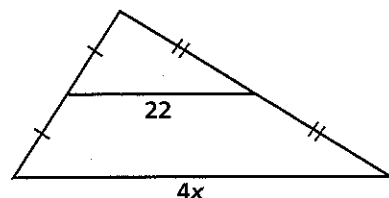


Cumulative Review

Chapters 1–5

For Exercises 1–14, choose the best answer.

- At the local bakery a small chocolate chip cookie has a diameter of 2 in. How much more cookie do you get if you buy a supercookie with a diameter of 6 in.?
A. $8\pi \text{ in.}^2$ B. $10\pi \text{ in.}^2$ C. $32\pi \text{ in.}^2$ D. $40\pi \text{ in.}^2$
- Find the value of x in the diagram at the right.
F. 5.5 G. 11 H. 22 J. 44
- Which side lengths would *not* make a triangle?
A. 2, 4, 5 B. 3, 8, 6 C. 4, 5.1, 9 D. 4, 3, 7
- Find the value of y in the diagram at the right.
F. $-\frac{1}{3}$ G. $\frac{1}{3}$ H. 3 J. 5
- The lengths of the sides of $\triangle ABC$ are $AB = 8$, $BC = 6$, and $AC = 10$. Put the angles in order from smallest to largest.
A. $\angle A, \angle B, \angle C$ B. $\angle A, \angle C, \angle B$
C. $\angle B, \angle C, \angle A$ D. $\angle B, \angle A, \angle C$
- What can you conclude about the diagram at the right?
F. $\triangle LNO$ is isosceles. G. \overline{MP} is a midsegment.
H. $\angle LMP \cong \angle LPM$ J. $\frac{1}{2}MP = NO$
- What is the next number in the sequence?
128, 64, 32, 16, 8, ...
A. 5 B. 10 C. 15 D. 4
- Which is not a point of concurrency?
F. centroid G. orthocenter H. median J. incenter
- Which are the appropriate names for the polygon shown at the right?
I. quadrilateral II. rectangle III. parallelogram IV. rhombus
A. I and IV B. I and II C. III and IV D. I and III
- Which line is perpendicular to $y = \frac{1}{3}x + 9$?
F. $3y = -9x + 1$ G. $4y = 12x - 7$
H. $3y = -6x + 11$ J. $6y = 2x - 1$
- What is the inverse of the statement "If the sky is blue, then it is not raining"?
A. If the sky is not blue, then it is raining.
B. If it is not raining, then the sky is blue.
C. If it is raining, then the sky is not blue.
D. If the sky is blue, then it is raining.



Cumulative Review (continued)

Chapters 1–5

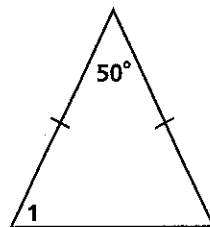
12. Find $m\angle 1$ in the diagram at the right.

F. 50

G. 55

H. 60

J. 65



13. Complete the statement: In $\triangle LMN$, $LM + LN$?

A. $< LN$

B. $> MN$

C. $= LN$

D. $> LN + LM$

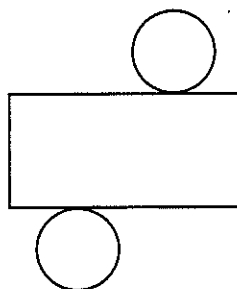
14. What kind of solid is represented by the net?

F. cylinder

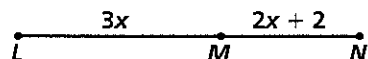
G. cone

H. sphere

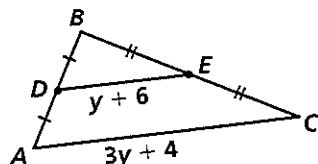
J. pyramid



15. If $LN = 42$, find LM .



16. Find AC .



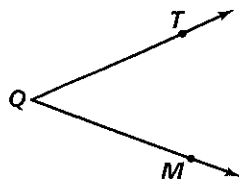
17. Write a counterexample for the statement, "If you are in the principal's office, then you are in trouble."

18. **Writing** Use indirect reasoning to show that an equilateral triangle cannot be an obtuse triangle.

19. **Open-ended** Sketch and label two different figures that have equal perimeters.

20. Find the coordinates of the center of a circle with diameter \overline{QR} so that $Q(2, 1)$ and $R(-4, 3)$.

21. Construct an angle bisector of $\angle TQM$.



22. The coordinates of $\triangle ABC$ are $A(4, 1)$, $B(2, -4)$, and $C(3, 8)$. Write the angles in order from smallest to largest.

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