

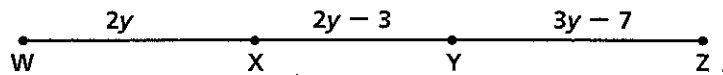
Cumulative Review

Chapters 1-2

Use the following conditional for Exercises 1-3.

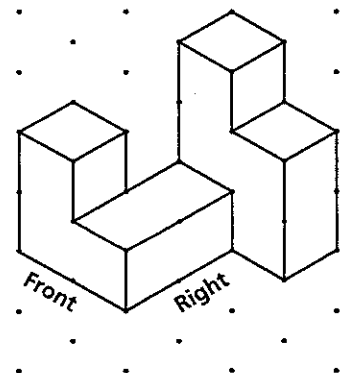
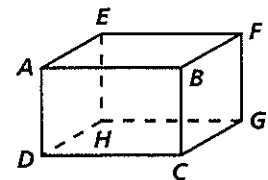
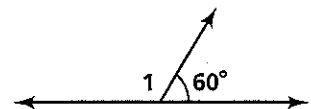
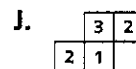
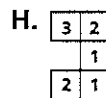
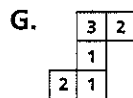
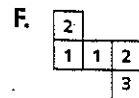
If something is a bird, then it can fly.

1. _____ hypothesis a. it can fly
2. _____ conclusion b. something is a bird
3. Which is a counterexample of this conditional?
A. sparrow B. cardinal C. ostrich D. crow
4. In the diagram at the right, what is the measure of $\angle 1$?
F. 60° G. 120° H. 30° J. 70°
5. What is the length of \overline{AB} with endpoints at $A(5, -1)$ and $B(2, 3)$?
A. 5 B. 7 C. 9 D. 25
6. Deshonda is selling granola bars to support her school band.
On Monday she sells 16 bars, on Tuesday she sells 8 bars, and on Wednesday she sells 4 bars. If the pattern continues, how many bars will she sell on Thursday?
F. 0 G. 1 H. 2 J. 4
7. If $WZ = 46$, find the value of y .



- A. $6\frac{3}{4}$ B. 7 C. 8 D. 9

8. Which can be the intersection of two distinct lines?
F. point G. line H. plane J. ray
9. Refer to the diagram at the right. Which segment is *not* parallel to \overline{EF} ?
A. \overline{AB} B. \overline{DC} C. \overline{HG} D. \overline{BF}
10. Refer to the diagram at the right. Which is the correct foundation drawing for the isometric drawing?

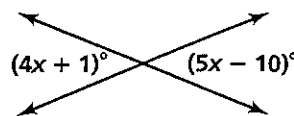


Cumulative Review (continued)

Chapters 1–2

11. What is the value of x ?

A. 9 B. -10 C. 11 D. -8



Ex. 11

12. Find the next two terms of the sequence.

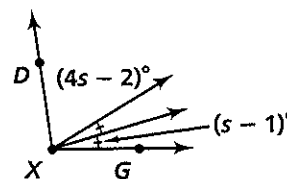
10, -14, 18, -22, ...

F. -26, 30 G. -30, 26 H. 26, 30 J. 26, -30

13. Which equation follows from $\frac{1}{4}x - 1 = 3$ by the Addition Property of Equality?

A. $x - 4 = 12$ B. $\frac{1}{4}x - 4 = 0$ C. $\frac{1}{4}x = 4$ D. $x - 16 = 0$

14. Refer to the diagram at the right. If $m\angle DXG = 98$, find the value of s .



Ex. 14

15. Write the converse of the following statement, and decide whether it is true or false. *If a polygon is a triangle, then it has three sides.*

16. Find the area of a circle with a circumference of 28π m.

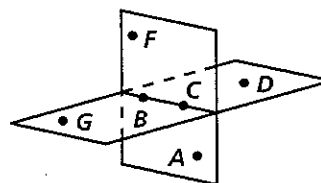
17. Why is the following statement not a good definition?

A linear pair is two angles whose sum is 180° .

18. What is the intersection of plane ABF and plane BDG ?

19. What property justifies the following?

If $2x + 4y = 10$ and $x = y$, then $2y + 4y = 10$.



Ex. 18

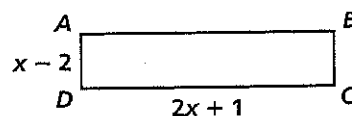
Find the coordinates of the center of a circle with diameter \overline{QR} .

20. $Q(2, 1), R(-4, 3)$

21. $Q(-5, -1), R(1, 5)$

22. What is the length of the segment with endpoints $M(2, -1)$ and $N(-6, 8)$?

23. Find x if the perimeter of rectangle $ABCD$ is 22.



Ex. 23

For the given dimensions, find the area of each figure to the nearest hundredth.

24. rectangle:

$b = 10$ m

$h = 6$ m

25. circle:

$d = 22$ cm

26. **Writing** Explain why a point that is equidistant from the endpoints of a segment is *not* the midpoint of the segment.