-4+3=-1

1+3=2



Skills Practice

each shape has two more shaded and one more unshaded diamonds than the one

2. -4, -1, 2, 5, 8

each element is three more than the previous element; 11 3. $6, \frac{11}{2}, 5, \frac{9}{2}, 4$

each element has a numerator one less than the previous element and the denominator is always 2; /

4, -2, 4, -8, 16, -32

each element is -2 times the previous element; 64

(an also be: 12 11 10 9 written as

Make a conjecture about each value or geometric relationship. 5-8. Sample answers are given.

5. Points A, B, and C are collinear, and D is between B and C.

6. Point P is the midpoint of NQ

answer: A, B, C, and D are collinear.

to help.

7. $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$ form four linear pairs.

 \angle 1, \angle 2, \angle 3, and \angle 4 are formed by two intersecting lines.

Determine whether each conjecture is true or false. Give a counterexample for any false conjecture.

9. If $\angle ABC$ and $\angle CBD$ form a linear pair, then $\angle ABC \cong \angle CBD$.

False; one of the angles could be acute and the other obtuse.

10. If \overline{AB} , \overline{BC} , and \overline{AC} are congruent, then A, B, and C are collinear.

False; \overline{AB} , \overline{BC} and \overline{AC} could form a triangle.



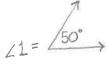
11. If AB + BC = AC, then AB = BC.

False; counterexample:

12. If $\angle 1$ is complementary to $\angle 2$, and $\angle 1$ is complementary to $\angle 3$, then $\angle 2 \cong \angle 3$.

true

Chapter 2



mL1+mL2=90m/1+m/3=90Glencoe Geometry therefore m/2=m/3