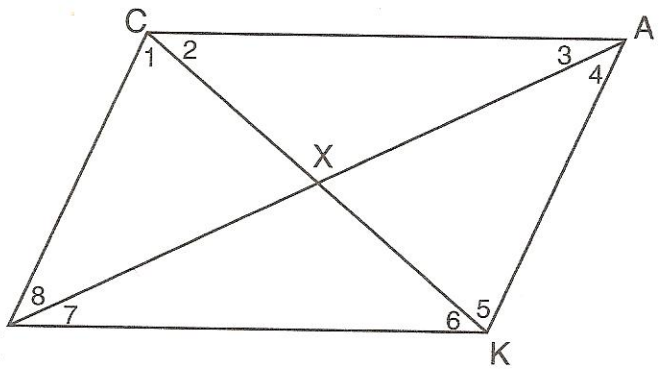
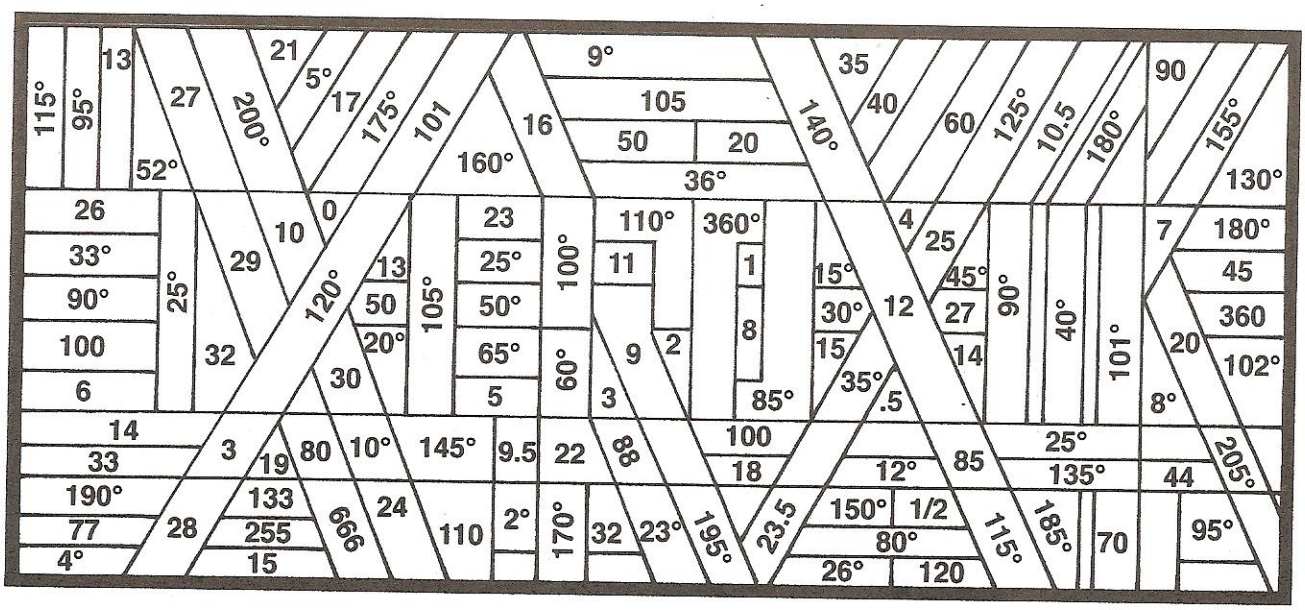
6.2

Properties of Parallelograms

Parallelograms have all of these properties:
- —both pairs of opposite sides parallel
- —both pairs of opposite sides congruent
- —both pairs of opposite angles congruent
- —diagonals bisect each other

Shade the answers below to discover the corporation whose success is based on the invention of Chester Carlson.



1. If CA = 10, EK = _____ .
2. If CK = 18, CX = _____ .
3. If ∠CEK = 85°, ∠CAK = _____ .
4. If ∠ECA = 130°, ∠CAK = _____ .
5. If ∠1 = 40° and ∠2 = 65°, ∠EKA = _____ .
6. If EX = 15, EA = _____ .
7. If CE = 12, KA = _____ .
8. If ∠8 = 25° and ∠7 = 35°, ∠EKA = _____ .
9. If CX = 5x – 44 and XK = 2x + 25, then x = _____ .
10. If ∠7 = 30° and ∠4 = 40°, ∠EKA = _____ .
11. If CE = 3x + 5 and AK = 7x – 15, then x = _____ .
12. If ∠ECA = 6x – 20 and ∠EKA = 2x + 80, then x = _____ .
13. If ∠CAE = 35°, ∠AEK = _____ .
14. If ∠2 = 100° and ∠3 = 20°, ∠CXA = _____ .
15. If ∠CEK = 80°, ∠EKA = _____ .
16. ∠1 + ∠2 + ∠3 + ∠4 + ∠5 + ∠6 + ∠7 + ∠8 = _____ .