

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 $\angle CEK = 85^\circ$, $\angle CAK =$ _____ .
4. If $\angle ECA = 130^\circ$, $\angle CAK =$ _____ .
5. If $\angle 1 = 40^\circ$ and $\angle 2 = 65^\circ$, $\angle EKA =$ _____ .
6. If $EX = 15$, $EA =$ _____ .
7. If $CE = 12$, $KA =$ _____ .
8. If $\angle 8 = 25^\circ$ and $\angle 7 = 35^\circ$, $\angle EKA =$ _____ .
9. If $CX = 5x - 44$ and $XK = 2x + 25$, then $x =$ _____ .
10. If $\angle 7 = 30^\circ$ and $\angle 4 = 40^\circ$, $\angle EKA =$ _____ .
11. If $CE = 3x + 5$ and $AK = 7x - 15$, then $x =$ _____ .
12. If $\angle ECA = 6x - 20$ and $\angle EKA = 2x + 80$, then $x =$ _____ .
13. If $\angle CAE = 35^\circ$, $\angle AEK =$ _____ .
14. If $\angle 2 = 100^\circ$ and $\angle 3 = 20^\circ$, $\angle CXA =$ _____ .
15. If $\angle CEK = 80^\circ$, $\angle EKA =$ _____ .
16. $\angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 + \angle 7 + \angle 8 =$ _____ .

