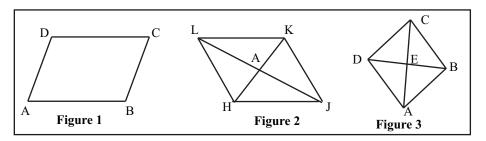
## Handout 1: The Quad Squad



Use Fig 1 for questions 1-3.

- 1. Which parts of parallelogram *ABCD* are congruent?
- 2. In parallelogram ABCD, if  $m\angle A = 60^{\circ}$ , what is  $m\angle C$ ?
- 3. In parallelogram ABCD, if  $m \angle B = 50^{\circ}$ , what is the sum of the internal angles of the parallelogram?

For problems 4-6, refer to the parallelogram in Figure 2.

- 4. Which parts of parallelogram HJKL are congruent?
- 5. If KA = 20 cm and HA = x + 7, what is the value of x?

6. If KA = 2x + 7 and HA = 3x - 1, what is the length of  $\overline{HK}$ ?

For problems 7-10, refer to the rhombus in Figure 3.

- 7. If DB = 6 in and CA = 8 in, what is the length of  $\overline{CB}$ ?
- 8. If the perimeter of the rhombus is 40 cm and DE = 6 cm, what is the length of  $\overline{CB}$ ?
- 9. If the perimeter of  $\triangle ABD$  is 36 ft and DB = 10, what is the perimeter of  $\triangle ABC$ ?
- 10. If  $m \angle DAE = 25^{\circ}$ , what is the measure of  $\angle DEC$ ?