

# Be Chart Smart

**Directions:** Read the Scholastic News Online story about firefly populations (“Fading Fireflies?”), then look at the chart below to learn more about insects. The chart lists some of the major orders, or groups, of insects. Use the chart to answer the questions.

## Some Major Groups of Insects

ORDER	TYPES OF INSECTS	APPROXIMATE NUMBER OF NAMED SPECIES
<b>Coleoptera</b>	<b>beetles</b>	<b>360,000</b>
<b>Lepidoptera</b>	<b>butterflies, moths</b>	<b>150,000</b>
<b>Diptera</b>	<b>flies, mosquitoes, gnats</b>	<b>130,000</b>
<b>Hymenoptera</b>	<b>ants, bees, wasps</b>	<b>120,000</b>
<b>Hemiptera</b>	<b>stinkbugs, bed bugs, others</b>	<b>80,000</b>
<b>Orthoptera</b>	<b>crickets, grasshoppers</b>	<b>20,000</b>
<b>Dictyoptera</b>	<b>cockroaches, mantises</b>	<b>6,000</b>
<b>Odonata</b>	<b>dragonflies, damselflies</b>	<b>5,300</b>

SOURCE: Earthlife.net encyclopedia

- About how many species of ants, bees, and wasps are there? \_\_\_\_\_
- Which order of insects includes grasshoppers? \_\_\_\_\_
- A firefly is a kind of beetle. To which order of insects does it belong? \_\_\_\_\_
- Which order has about 20 times as many species as Dictyoptera? \_\_\_\_\_
- There are about 750,000 insect species in the world. Write a fraction in simplest form that shows what portion of those species belong to the same order as fireflies. \_\_\_\_\_
- About how many more cricket and grasshopper species are there than dragonfly and damselfly species? \_\_\_\_\_
- Insect names often come from ancient Greek. Look at the Greek word roots below. Find an insect order on the chart whose name uses two of those roots, and write the order name on the line. Then describe what you think the order name means in Greek.

**ptera = wings**  
**di = two**

**ortho = straight**  
**hemi = half**

**dictyo = net-like**  
**lepis = scaly**