“Who’s your Daddy?”
Last May, this little lady...
...hid a little surprise in our yard:
Now, if this is the Mommy...

...and these are the babies...
Who is the Daddy???
Coat colors in this family:

- Toast (F): dark tortoiseshell
- Gizmo (F): dark tortoiseshell
- Sprocket (F): calico
- Edison (M): black and white
The suspects:

**Old Toms**
- Bruiser (black and white)
- Tuck (black and white "tuxedo cat")
- Big Tom (White belly and legs with gray tabby back)

**Young Toms**
- Smokey (Dark chocolate brown, long hair - sorry, I don’t have a picture)
Your job:

• Use the web to look up information on cat genetics. Several cat breeder sites have excellent information on the inheritance of coat color.

• Determine the probable genotypes of Toast and the three surviving kittens. Using this, determine which of the toms is the father of the kittens.

• Write up what you find, including what you learn about patterns of inheritance in cat fur color. Include Punnett squares to show your work.

• Since Toast was the only fertile female around that I know of (after I caught and spayed two others), and there were at least four intact tomcats in the area, she could have bred with more than one male. Thus it’s possible that the kittens have different fathers. Use what you find out about cat genetics to determine if this is probable, or if one of the males could have sired all of the kittens.