What Determines the Sex of a Child?

Some diagrams provide information in a chart. Study the charts.

Father

	X	Y
X	XX	XY
X	XX	XY

(Mother, left column label)

Ratio of offspring

XX: $\frac{2 \text{ boxes}}{4 \text{ boxes}} = 50\%$

XY: $\frac{2 \text{ boxes}}{4 \text{ boxes}} = 50\%$

Answer these questions about the diagram above.

1. What type of illustration is shown? _____

2. What do the letters represent? _____

3. Why are two letters written under both the mother and the father?

   _____

4. What does XX represent? _____

5. What does XY represent? _____

6. What are the possible outcomes of this cross? _____

7. According to the chart, what is the ratio of males to females in the offspring? _____