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There are some ratio problems where you almost don't need a bar diagram:
1 . There are $2 / 3$ as many pens as pencils. There are 30 pencils, How many pens are there?
2. There are $3 / 4$ as many cats as dogs. There are 12 cats. How many dogs are there?
3. The cookie dough as $2 / 3$ as much sugar as flour. It has $11 / 4$ cups of flour. How much sugar does it have?
4. The cookie dough as $2 / 3$ as much sugar as flour. It has $11 / 4$ cups of sugar. How much flour does it have?

There are some other ratio problems, where a bar diagram is really useful.
5. Amy and Bob share a plate of cookie. Amy gets $2 / 3$ as many as Bob. If there are 30 cookies on the plate, how many do each get?
6. A package of stickers has stars and hearts. There are $2 / 5$ as many stars as hearts. If there are 90 more hearts than stars, how many stars are there?

