Equivalent Fractions
Video Script

Scene		Full Transcript
1	**KT:**	Mmm. KT here, and I absolutely love the frosting that Granny's Bakery puts on cakes and rolls. I'd put frosting on hamburgers if they'd let me. They know that I'm a big fan of frosting and always give me a little extra on whatever I order. While I was sitting here, I noticed that this poor guy can't decide which pan of brownies to buy. I bet he's called three different people trying to figure it out. He doesn't know it, but he is about to be dazzled by a little lesson on equivalent fractions. Come on, let's help him decide and get another *Problem Solved*.
2	**KT:**	I heard him say that he only has four dollars and needs to get as many brownies as he can. Fortunately, he has two pans to choose from and each is four dollars. His dilemma is that with this one, he gets two of the three bigger pieces, but with this pan, he gets four of the six smaller pieces. Let's think about this. Equivalent fractions are fractions that have the same value; they represent the same amount of an object but have different numerators and denominators. Let's use the brownies to explain. Two thirds here and $\frac{4}{6}$ here, how should we go about this?
3	**Voice-Over KT:**	Now, to me it looks like these pieces, the two of the six, are the same size as one of these three pieces, so $\frac{1}{3}$ equals $\frac{2}{6}$. If we double the number of pieces in this pan, by cutting it in half, we end up with four pieces over here too. We doubled the number of pieces we have and also doubled the number of pieces in the pan. This pan has one, two, three, four of six pieces, and this one has one, two, three, four of six pieces.
4	**KT:**	Excuse me. Before you make another call, they're both the same size, and each is four dollars, so choose either one.
5	**KT:**	You may be asking yourself, "But, how could that be?" Because of equivalent fractions, of course. You don't even have to fudge the numbers. (*Voice-Over boos*) What? That's funny.

6	**Voice-Over KT:**	You can create equivalent fractions by multiplying the numerator and denominator by the same number. Take $\frac{3}{4}$, for example. If we multiply the numerator, 3, by 5, and we multiply the denominator of 4 by 5, we get $\frac{15}{20}$, so $\frac{15}{20}$ equals $\frac{3}{4}$.
7	**KT:**	Ah! Oh, you caught me. These are so good.
8	**KT:**	I'll bet you didn't know this tasty tidbit. You can become an expert on equivalent fractions with a little practice folding paper, like this. First, you fold the paper into thirds; then, if we shade in this area to represent $\frac{1}{3}$, we can create its equivalent fraction by folding the paper in half, which has the same effect as multiplying the numerator by two and the denominator by two. Look, our original $\frac{1}{3}$ has become $\frac{2}{6}$. We've doubled the number of shaded parts and doubled the number of total parts in the unit. We could even double it again, and we will get $\frac{4}{12}$.
9	**KT:**	Did you ever imagine that equivalent fractions could be that easy or tasty? Yum, that's another *Problem Solved*.