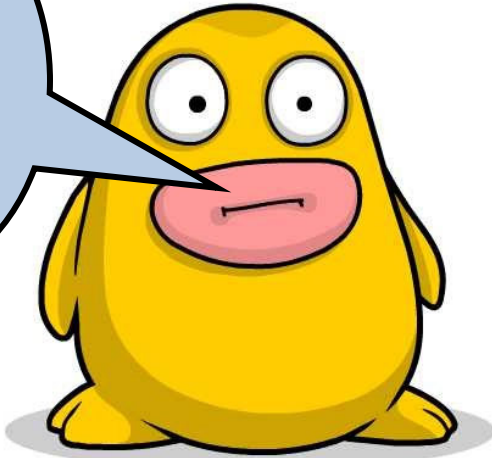


## 5.35 (pg.206) Finding Ratios that are Equivalent

Why are all these kids looking at us?



Maybe they've never seen an equivalent ratio!



These notes will help you determine if 2 ratios are equal to each other.

**Ex. \$2 for 10 prints OR \$6 for 30 prints**

Find their unit rate and compare:

$$\frac{\$2}{10} \div \frac{10}{10} = \frac{\$.20}{1}$$

$$\frac{\$6}{30} \div \frac{30}{30} = \frac{\$.20}{1}$$

Sweet!



**Yes they are equivalent!**

You don't  
have to  
go all 26  
**FO**  
**NT**  
on me!

Ex:

$$\text{\$2 for 10 prints} \longrightarrow \frac{\text{\$2}}{10} \div \frac{10}{10} \longrightarrow 20\text{\textcent}/\text{print}$$

$$\text{\$5 for 20 prints} \longrightarrow \frac{\text{\$5}}{20} \div \frac{20}{20} \longrightarrow 25\text{\textcent}/\text{print}$$

**NO! They are NOT  
equivalent!**



A different way to solve: Use **Cross Products**

Ex. \\$6 for 9 cups and \\$7 for 11 cups

$$11 \times 6 = 66$$

$$\frac{\text{\$6}}{9} \stackrel{?}{=} \frac{\text{\$7}}{11}$$

$$9 \times 7 = 63$$

**NO!** They are **NOT** equivalent because when you multiply their diagonals (**63, 66**) they aren't equal.

To find the **better buy**: get unit rate for both deals.

Ex. \$60 for 8 shirts OR \$24 for 3 shirts

$$\frac{60}{8} \quad \frac{\mathbf{X}}{1}$$

Divide by 8

\$7.50 per shirt (60/8)

$$\frac{24}{3} \quad \frac{\mathbf{X}}{1}$$

Divide by 3

\$8.00 per shirt (24/3)

**Better Deal**

