

## DIG INTO PROPORTIONAL RELATIONSHIPS: A BAGEL PROBLEM

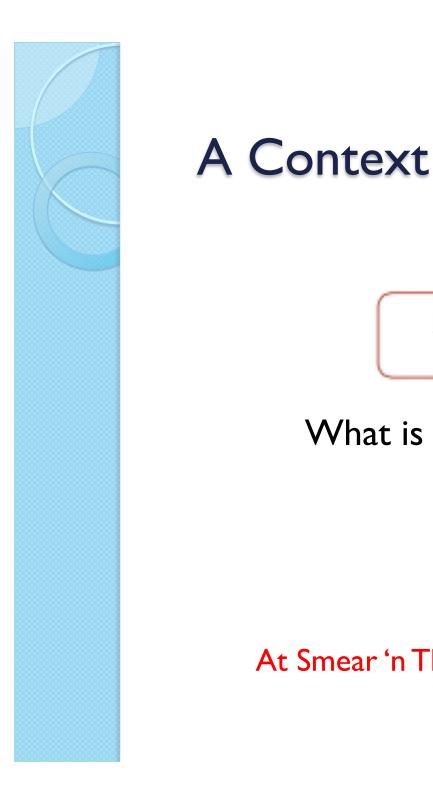
Presented by MathLinks Authors Mark Goldstein and Shelley Kriegler

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# In this session, we will:

 examine properties of a proportional relationship that are revealed through different representations of linear functions





SHMEAR 'N THINGS 4 bagels for \$3.00

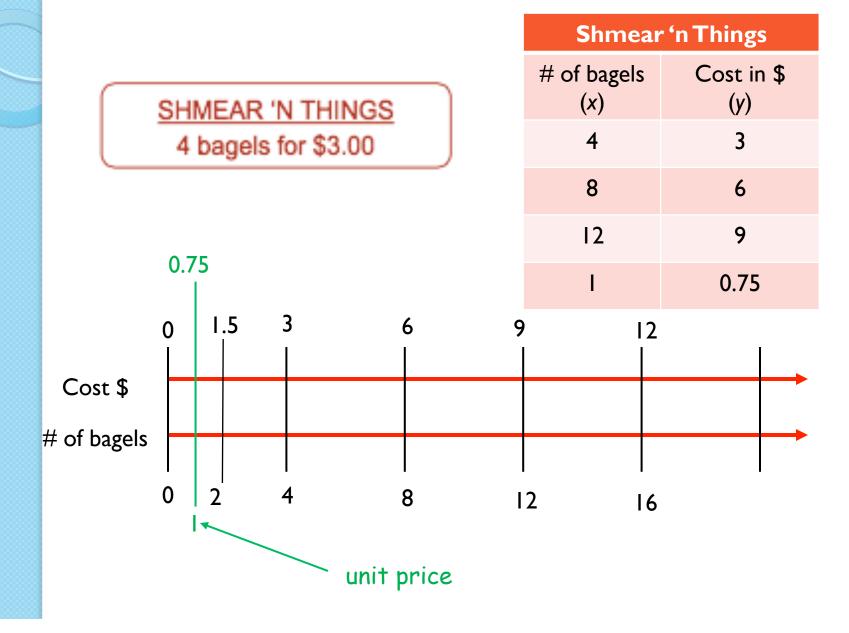
What is the cost of one bagel?

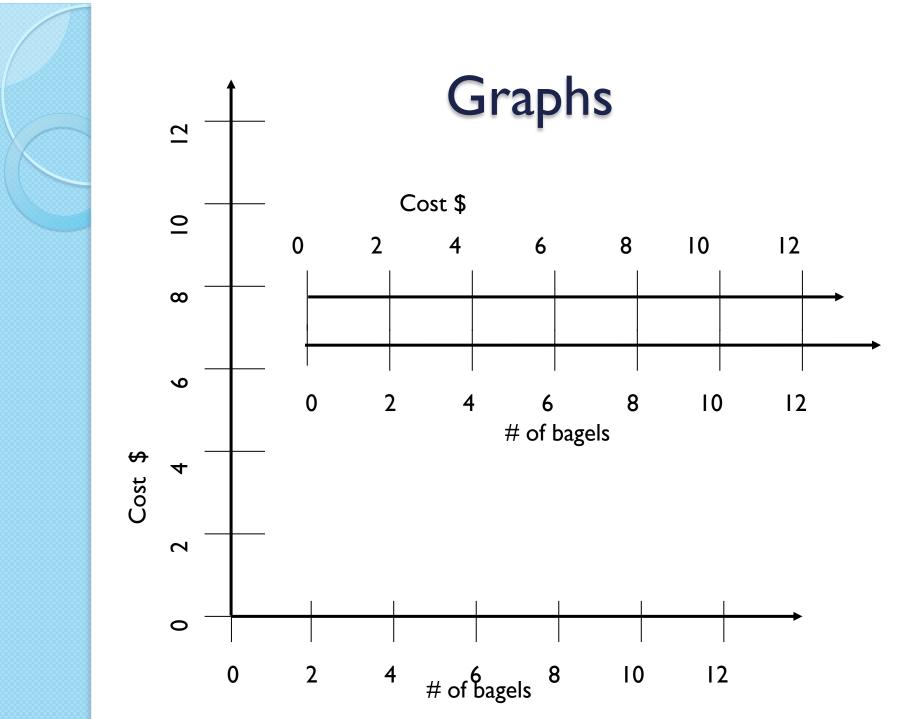
 $\left(\frac{3.00}{4}=0.75\right)$ 

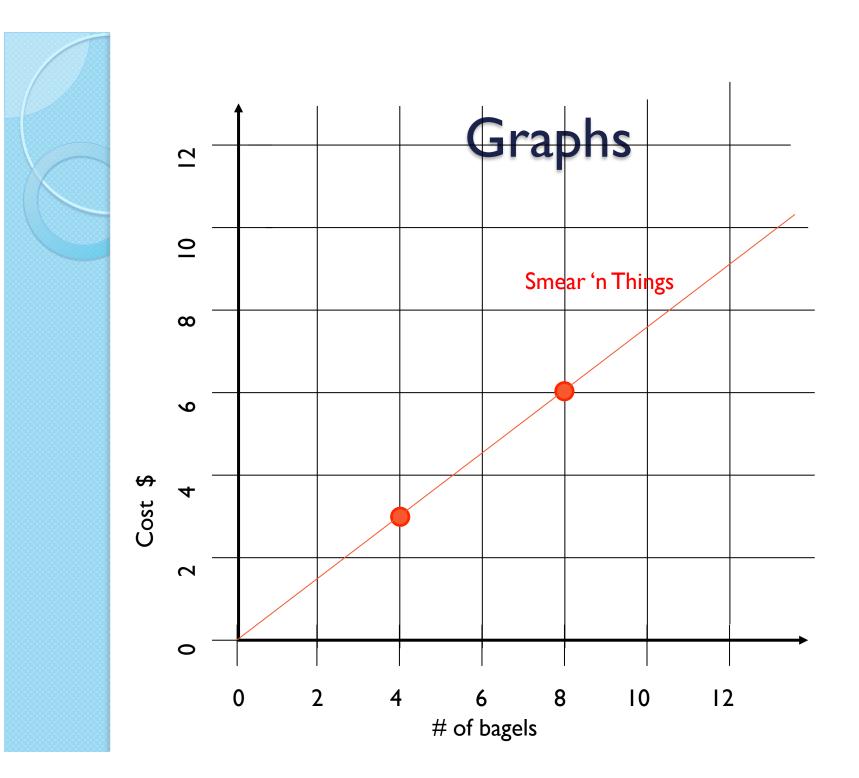
At Smear 'n Things, each bagel costs \$.75.

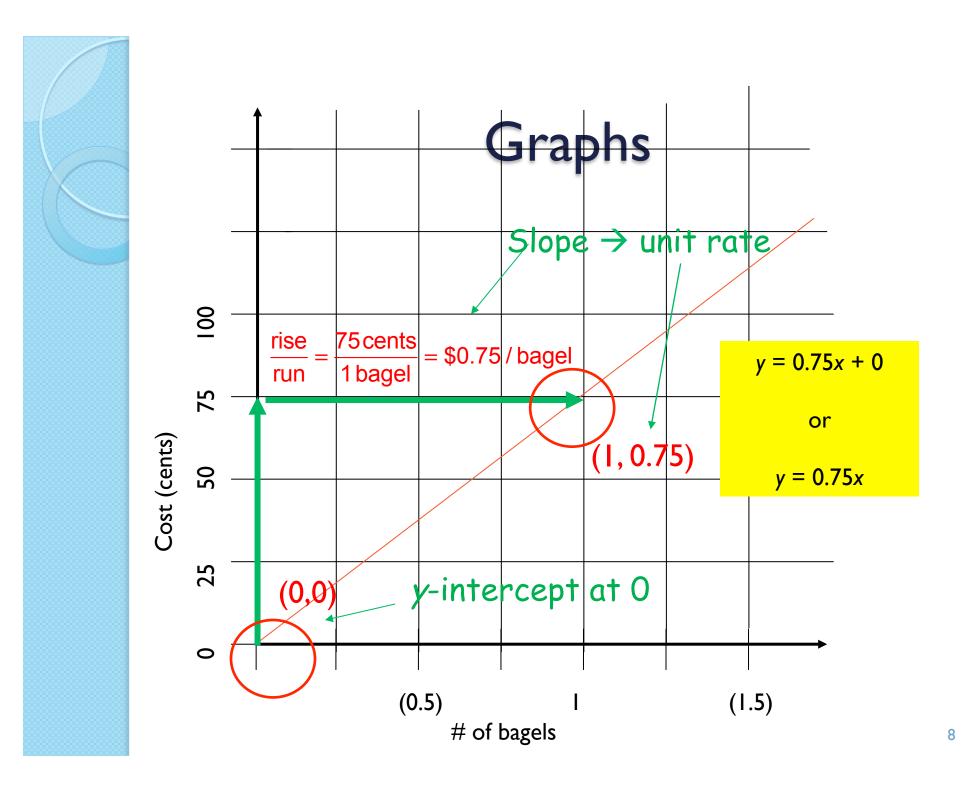
# Let's dig deeper!

## **Double Number Line**









### A Different Scenario

#### SHMEAR 'N THINGS

4 bagels for \$3.00

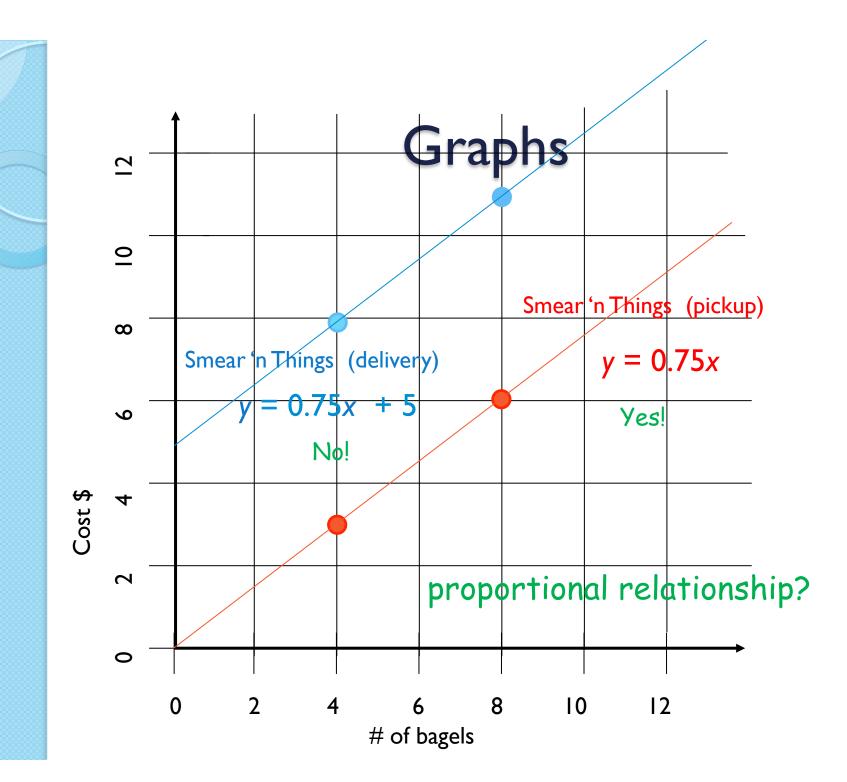
Shmear 'n Things Pick-up in store		
# of bagels (x)	Cost in \$ (y)	
4	3	
8	6	
16	12	

Shmear 'n Things	
Delivery charge: \$5.00	

# of bagels (x)	Cost in \$ (y)
4	8
8	П
16	17

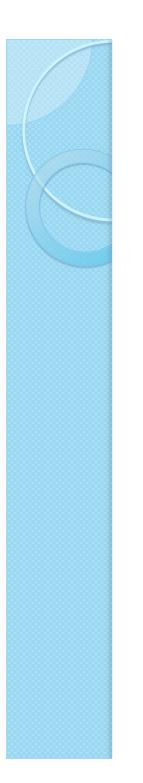
y = 0.75x

y = 0.75x + 5



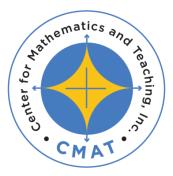
# In this session, we

- connected slope and unit rate to a context
- examined properties of proportional and nonproportional relationships.



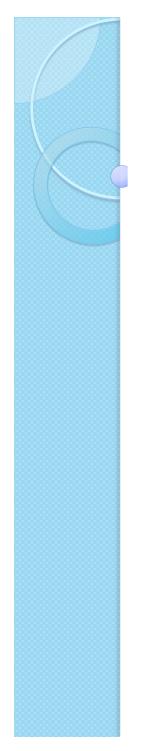
# Mathiks

## **OUR PROGRAMS:**

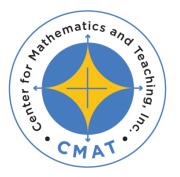


- Comprehensive 6-8 curriculum
- Customized intervention grades 6-9
- Special Education programs
- Supplemental programs
- Professional development

For more information, please visit our website at www.mathandteaching.org







## **THANK YOU!**

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