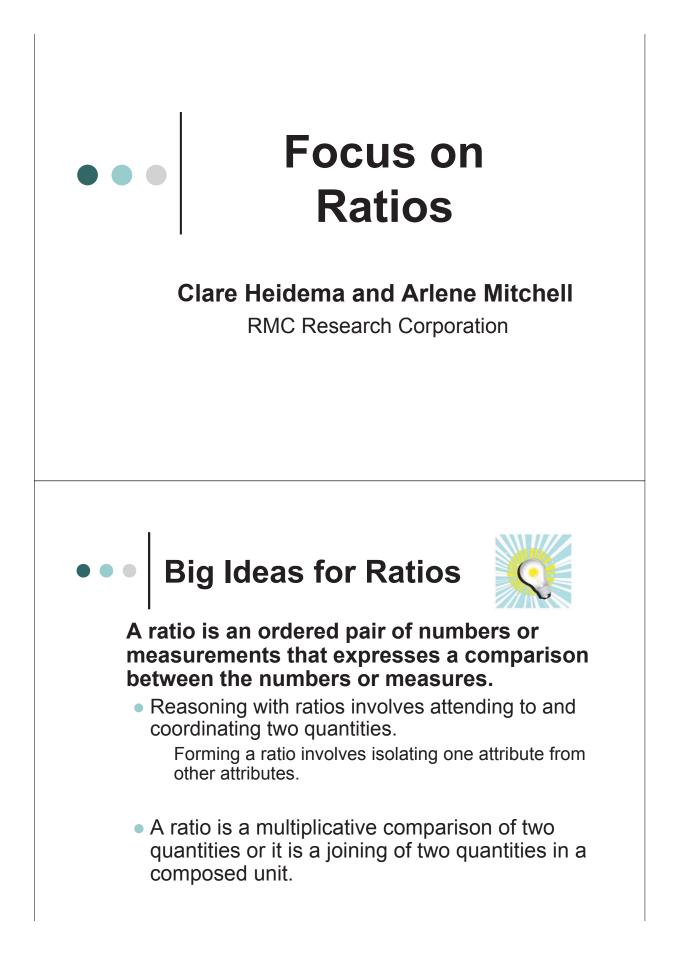
DOINGWHATW?RKS

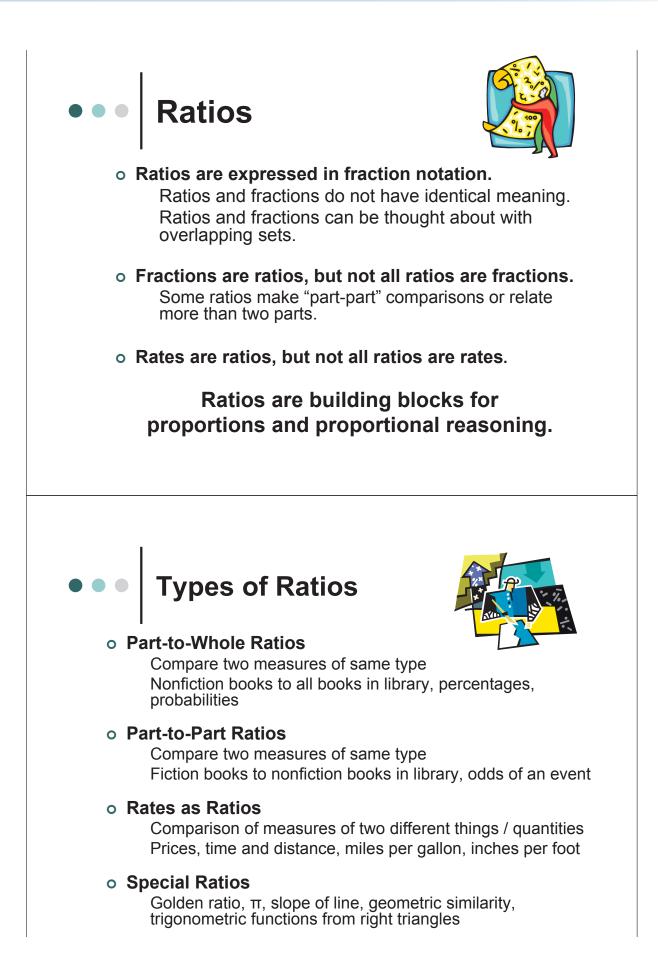


Focus on Ratios RMC Denver Professional Development, Colorado

Topic: Developing Effective Fractions Instruction for K-8 Practice: Ratio, Rate, Proportion

As part of a week-long professional development workshop provided by RMC Denver, teachers spend a session focusing on issues related to working with ratios. The media piece *Understanding Ratios* is from this session.





Ratios: Student Thinking

Two weeks ago, two flowers were measured at 8 inches and 12 inches. Today they are 11 inches and 15 inches tall, respectively.



Which flower grew more – the 8-inch or 12-inch flower?

Defend two different answers to this problem. Additive Versus Multiplicative Reasoning

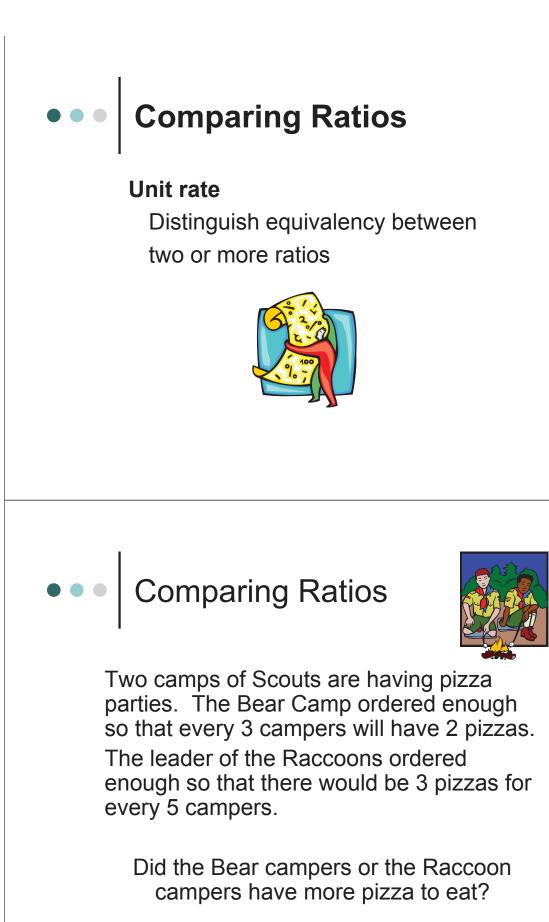
Comparing Ratios

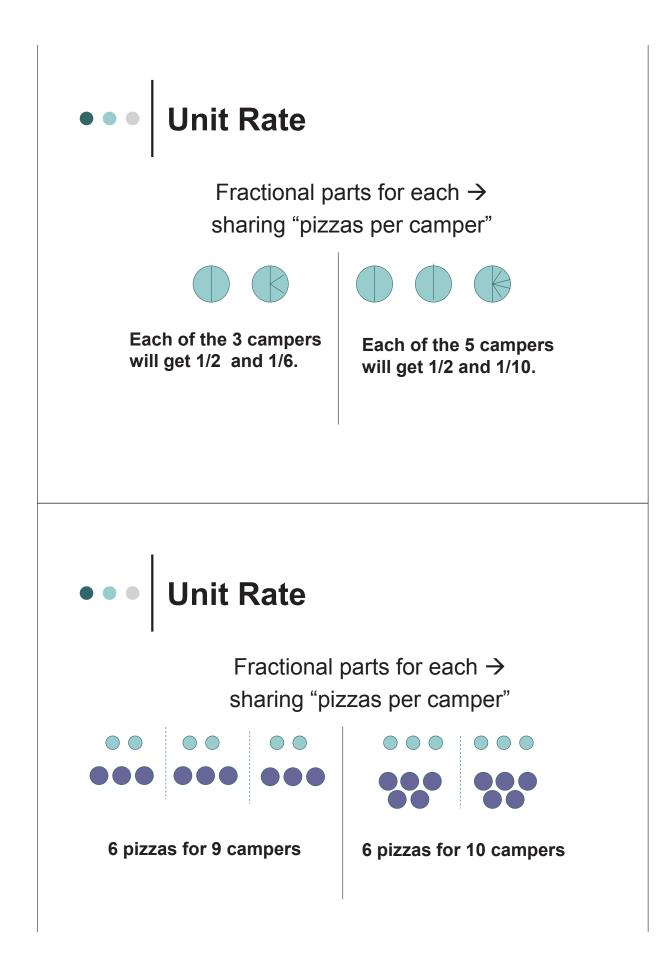
Equivalent ratios

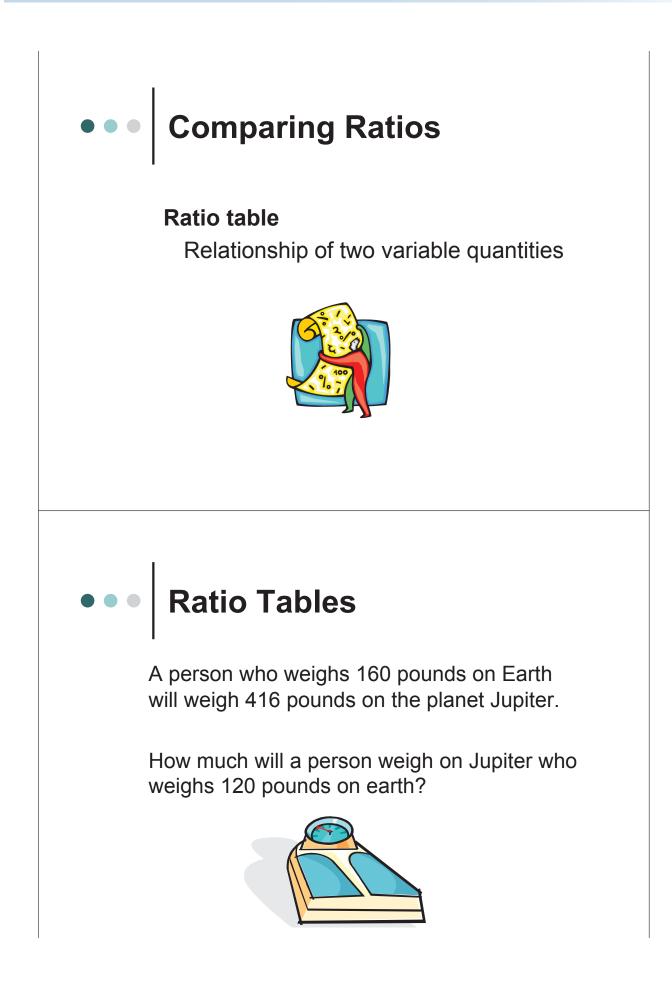
Visual and numeric formats

	А	_	J		
		E	F		
G		с		н	
в		D	,	I	

de che che	
****	****
615 615 * * *	
	چي پې پې







 Ratio Table 2 2 X3 					
	Earth weight	160	80	40	120
	Jupiter weight	416	208	104	312
			ŀ	Add	
	Earth weight	160	80	40	120
	Jupiter weight	416	208	104	312

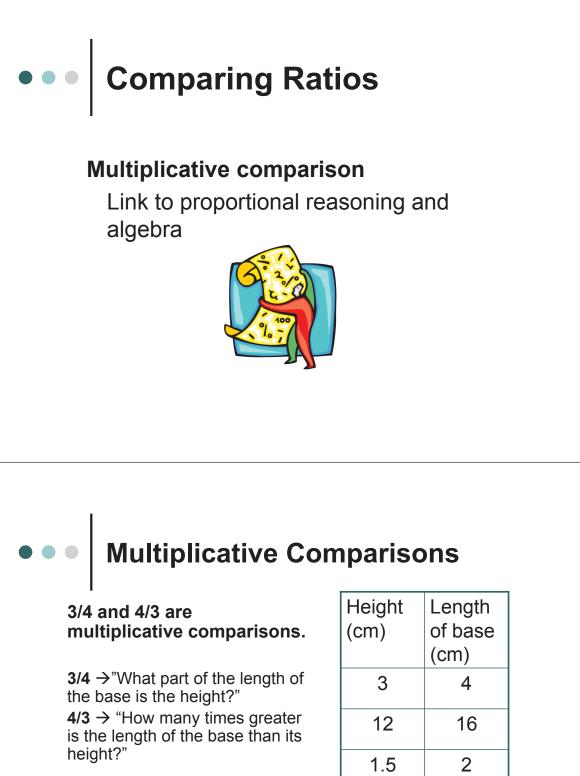
• • • Ratio Table

Cheese is \$4.25 per pound.

How much will 12.13 pounds cost?



	Lbs	Cost	Notes
Α	1	4.25	Given
В	10	42.50	Ax10
С	2	8.50	Ax2
D	0.1	0.425	A 10
Е	12.1	51.125	B+C+D
F	0.01	0.0425	D 10
G	0.03	0.1275	Fx3
Н	12.13	51.5525	E+G



Using multiplicative comparisons is a powerful proportional reasoning strategy.

	(cm)
	(CIII)
3	4
12	16
1.5	2
1	4/3
3/4	1