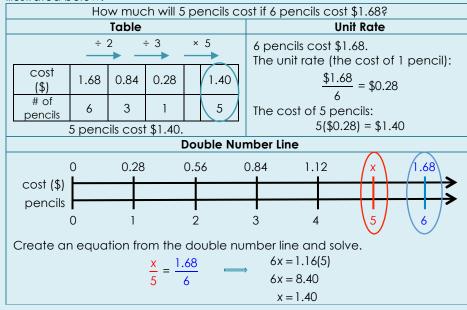
Packet 3: Proportional Reasoning Applications

Dear Parents/Guardians,

Proportional Reasoning: Packet 3 applies proportional reasoning strategies from Packets 1 and 2 to solve problems, including 'best buy' and scale drawings.

Strategies for Solving Proportional Reasoning Problems

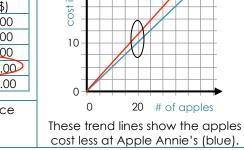
Students choose strategies to solve proportional reasoning problems. A few are illustrated below.



Best Buy Problems

Students use proportional reasoning strategies to determine the better buy. Apple Annie charges \$2 for 4 apples. Core 'n More charges \$3 for 5 apples. At these rates, which is the better deal?

	At these rates, which is the better dea					
	Apple Annie's			Core 'n More		
	# of	cost		# of	cost	
	apples	(\$)		apples	(\$)	
	4	2.00		5	3.00	
	8	4.00		10	6.00	
	12	6.00		15	9.00	
	16	8.00		20	12.00	
	20	10.00		25	15.00	



\$ ⊑.

Apple Annie's is the better deal since you can get the same number of apples for cheaper.

Scale Drawings

Students draw figures to scale of the original.

enis araw ligures to scale	e or me original.	
Original Figure	Enlarged Figure	Reduced Figure
Scale Factor is 1 Scale 1:1	Scale Factor is 2 Scale 2:1	Scale Factor is $\frac{1}{2}$
		Scale $\frac{1}{2}$:1
6 units × 6 units	12 units × 12 units	3 units × 3 units
<u>ee</u>		••



PROPORTIONAL REASONING PACKET 3

By the end of the packet, your student should know...

- How to solve proportional reasoning problems using various methods. Lesson 3.1
- Use tables, graphs and equations to determine the better buy. Lesson 3.2
- Determine if quantities are in a proportional relationship. Lessons 3.2 and 3.3
- Read and analyze drawings made to scale. Lesson 3.3

Additional Resources

For additional information and strategies, please refer to section 3.5.