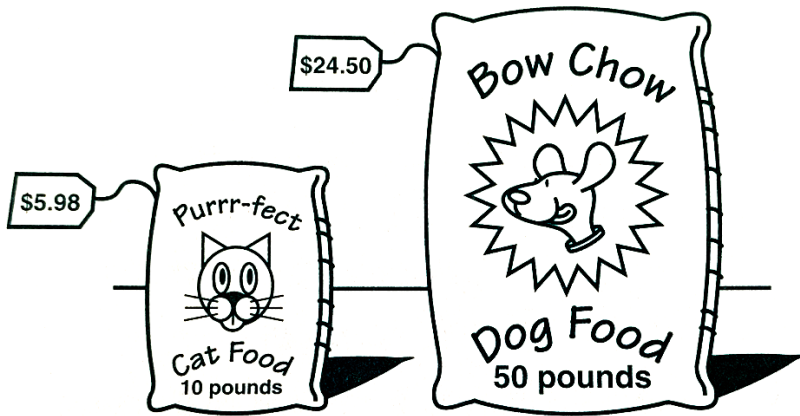


Comparing and Scaling

Partner Quiz for use after Investigation 2

1. The Cat and Dog Rescue Kennel uses the food shown.



Feeding Amounts

Cats get $\frac{1}{4}$ pound per day

Small dogs get $\frac{1}{3}$ pound per day

Large dogs get $\frac{1}{2}$ pound per day

- a. Which food type of food has a better price? Show your work.

- b. Which animal is the cheapest to feed—a cat, a small dog, or a large dog? Explain.

- c. On an average day, the kennel has 20 cats, 30 small dogs, and 20 large dogs. How many days will each bag of food last? Show your thinking.

- d. How many bags of food will the kennel need for a 30-day month? Show your thinking.

Partner Quiz (continued)

2. Decide if each of the following representation shows a proportional or non-proportional relationship. Explain how you know.

a.

Number of Students	30	60	90	120	150	Proportional	Non-Proportional
Field Trip Cost \$	130	160	190	220	250		

Explain how you know.

b.

	Proportional	Non-Proportional

Explain how you know.

c. Cost of Buying Spirit Day Pencils

$\$0.40 \cdot \text{number of pencils} = \text{Cost}$ $\$0.40N = C$	Proportional	Non-Proportional
--	--------------	------------------

Explain how you know.

d.	<table border="1"> <tbody> <tr> <td>Cost</td> <td>\$0.25</td> <td>\$1.00</td> <td>\$1.25</td> <td>\$2.50</td> <td>\$3.37</td> <td>\$5</td> </tr> <tr> <td>Number of Apples</td> <td>1</td> <td>4</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> </tr> </tbody> </table>	Cost	\$0.25	\$1.00	\$1.25	\$2.50	\$3.37	\$5	Number of Apples	1	4	5	10	15	20	Proportional	Non-Proportional
Cost	\$0.25	\$1.00	\$1.25	\$2.50	\$3.37	\$5											
Number of Apples	1	4	5	10	15	20											
Explain how you know.																	
e.	Finding Lunch Costs for a Field Trip $\$50 \text{ water for everyone} + \$3 \text{ per student for food} = \text{Cost}$ $50 + 3S = C$	Proportional	Non-Proportional														
Explain how you know.																	
f.	<p style="text-align: center;">Field Trip Planning Costs</p>	Proportional	Non-Proportional														
Explain how you know.																	
g.	$\frac{\frac{1}{4} \text{ mile}}{5 \text{ minutes}} = \frac{\frac{1}{20} \text{ mile}}{1 \text{ minute}}$	Proportional	Non-Proportional														
Explain how you know.																	

h.

0 36 points 40-point test 100%

0% 90%

Proportional Non-Proportional

Explain how you know.

3. Choose three of the proportional relationships in question 2. What is the constant of proportionality for each one?

4. Choose one of the proportional relationships in question 2. Write a question that you could answer with this representation.