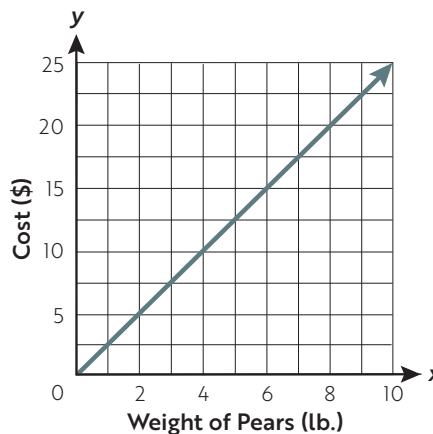# Comparing Proportional Relationships

Compare the proportional relationships in each problem. Use each constant of proportionality to help you!

Sunny Orchards charges for fruit by weight. The table shows prices for apples, and the graph shows prices for pears.

Weight of Apples (lb.)	Cost
5	$15
6	$18
7	$21
8	$24

What is the cost per pound of apples? _____   What is the cost per pound of pears? _____

Which fruit is **more** expensive per pound? _____

Sub Club Deli sells deli meat by weight. The scale shows one customer's purchase of ham. The table shows the cost for common weights of turkey.

2 lb. HAM $14.00

Weight of Turkey (lb.)	1.5	2	2.5	3
Cost	$13.50	$18.00	$22.50	$27.00

What is the cost per pound of ham? _____   What is the cost per pound of turkey? _____

Which meat is **more** expensive per pound? _____

Lily is planning her birthday party. She's deciding between cupcakes and cookies for the treats.

The Dotted Box Bakery charges $36 for 24 cupcakes.	The equation *y* = 2*x* models the cost for cookie orders from the Dotted Box Bakery, where *x* is number of cookies and *y* is cost in dollars.

What is the cost per cupcake? _____   What is the cost per cookie? _____

Which treat is **less** expensive? _____

Comparing Proportional Relationships

Compare the proportional relationships in each problem. Use each constant of proportionality to help you!

Ms. Chang is planning a field trip for her class. She will decide between the aquarium and the zoo.

| | The table shows the total cost to attend the zoo for some common class sizes. |

The equation $y = 10x$ models the cost to attend the aquarium, where x is the number of students in the class and y is the total cost.

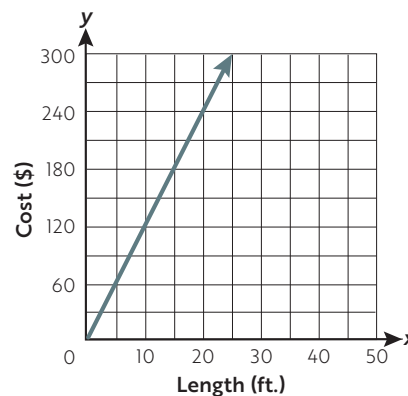| Number of Students	24	25	26	27
Cost	$264	$275	$286	$297

What is the cost per student for the aquarium? _____   What is the cost per student for the zoo? _____

Which field trip is **less** expensive per student? _____

Raul works for Happy Neighbor Fencing. He installs vinyl and wooden fences.

Yesterday, he installed a 35-foot vinyl fence for a customer. The materials cost $875 in all.

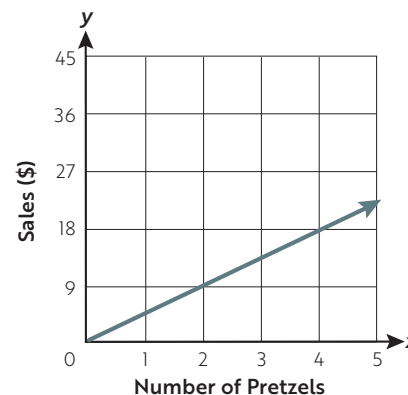The graph to the right shows the cost for different lengths of wooden fences.

What is the cost per foot for vinyl fences? _____   What is the cost per foot for wooden fences? _____

Which type of fence is **more** expensive per foot? _____

Mina is running the snack stand at her school's track meet.

The equation $y = 4x$ models hot dog sales, where x is the number of hot dogs sold and y is the total sales in dollars.

The snack stand also sells jumbo pretzels. The graph to the right shows the sales for different numbers of jumbo pretzels.

What is the cost per hot dog? _____   What is the cost per jumbo pretzel? _____

Which snack is **more** expensive? _____