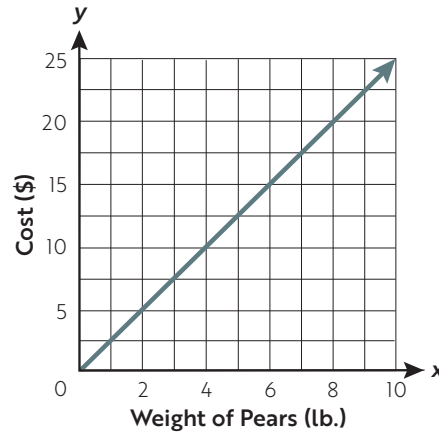


# COMPARING PROPORTIONAL RELATIONSHIPS

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

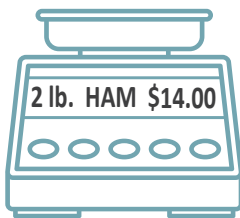


What is the cost per pound of apples? \$3

What is the cost per pound of pears? \$2.50

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

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.



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? \$7

What is the cost per pound of turkey? \$9

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

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  $y = 2x$  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? \$1.50

What is the cost per cookie? \$2

Which treat is **less** expensive? cupcake

# 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 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.

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

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

What is the cost per student for the aquarium? \$10

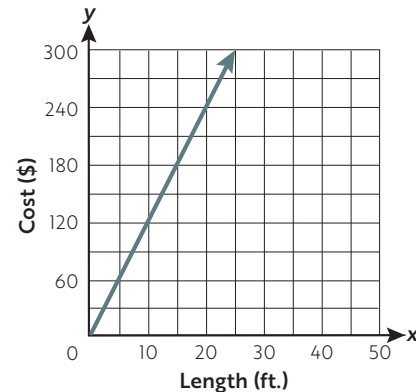
What is the cost per student for the zoo? \$11

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

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? \$25

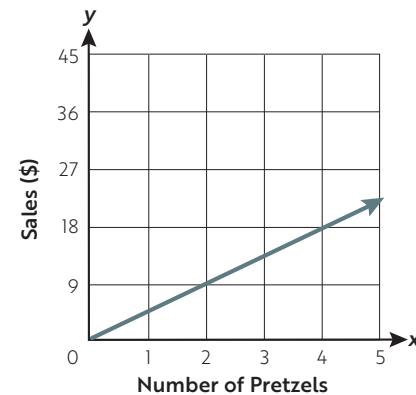
What is the cost per foot for wooden fences? \$12

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

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? \$4

What is the cost per jumbo pretzel? \$4.50

Which snack is **more** expensive? jumbo pretzel