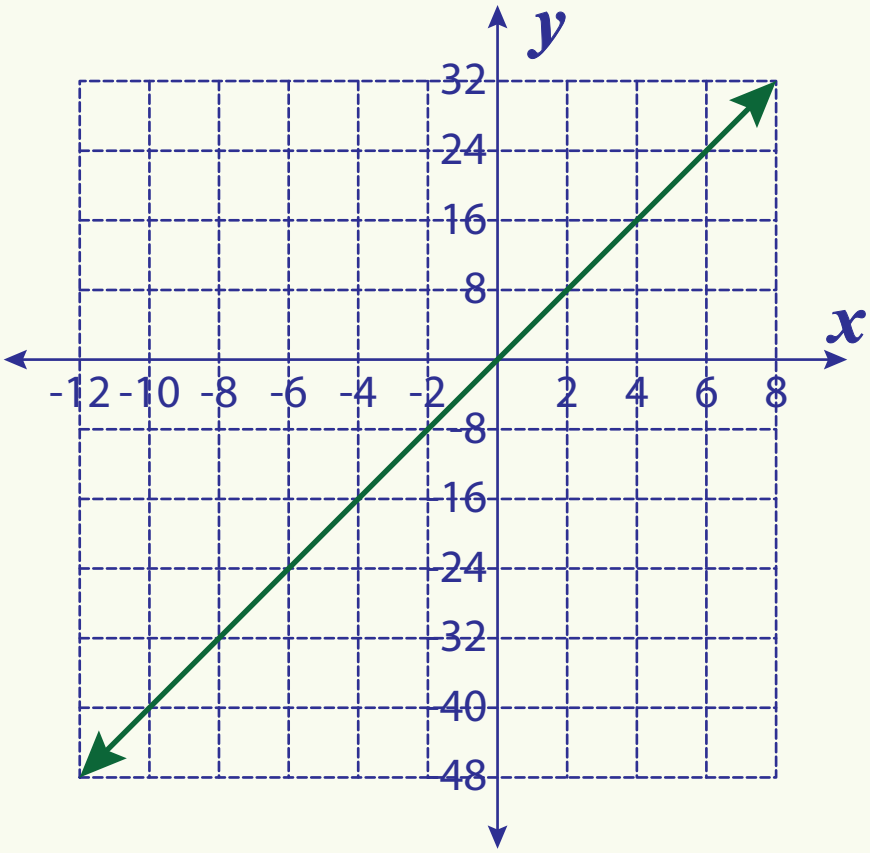
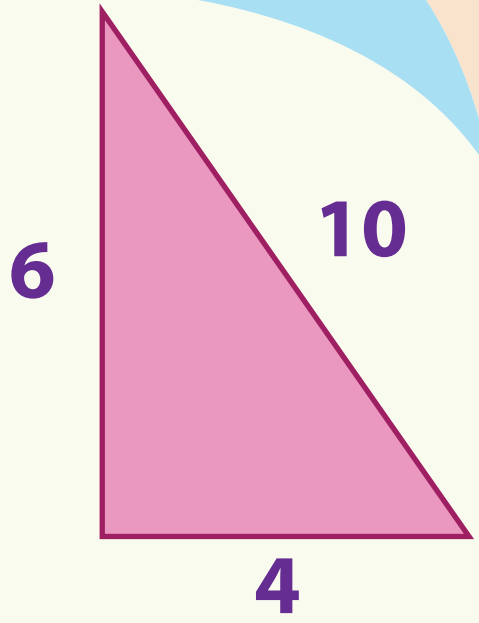
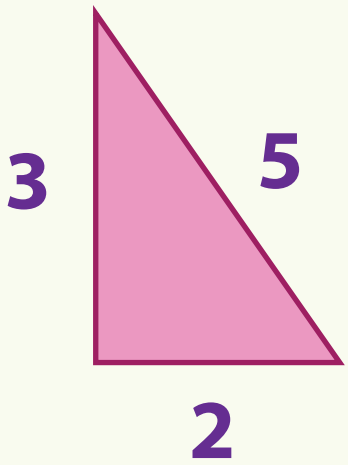
Proportions

8th Grade







$$y = kx$$

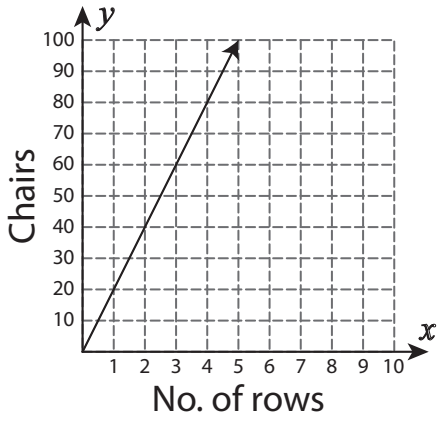
Workbook 1

MathWorksheets4Kids.com

Unit Rate

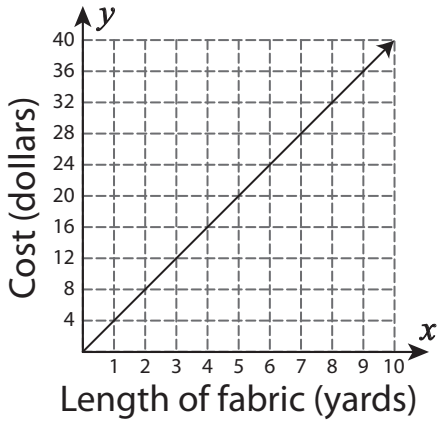
Find the unit rate for each graph.

1)



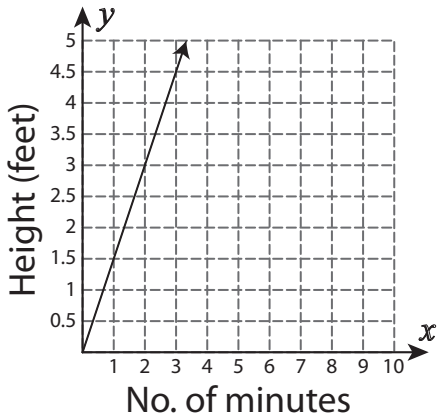
Unit Rate = _____

2)



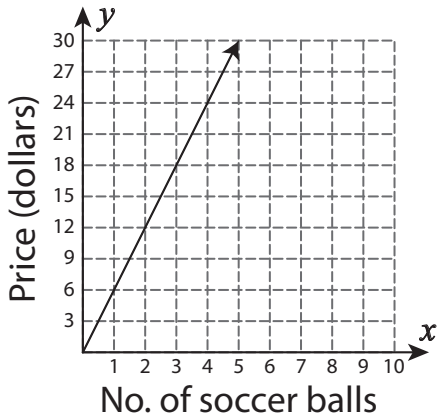
Unit Rate = _____

3)



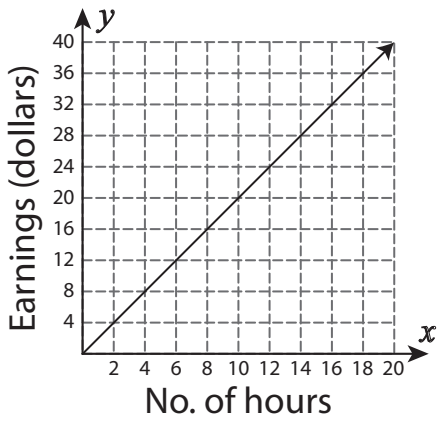
Unit Rate = _____

4)



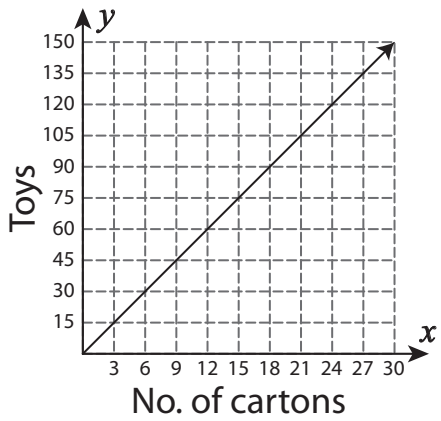
Unit Rate = _____

5)



Unit Rate = _____

6)



Unit Rate = _____

Comparing Unit Rates

1) Jack's and Mo's orchards had a harvest of 450 lb and 1,215 lb of oranges respectively. If Jack had 6 orange trees and Mo had 15 orange trees, whose orchard acquired the higher yield per tree?

2) Zoe visits a departmental store to pick a can of salted mixed nuts. A 15.25 oz can of mixed nuts is priced at $7.93 and the offer on a 25 oz can is $11.75. Assist Zoe pick up the better deal.

3) Kathleen, a florist, designs 5 bridesmaid bouquets with 95 rose stems. She also creates 3 bouquets with 63 tulips for the flowergirls. Which type of bouquet was designed with lesser number of flowers?

4) Andre, Rick, and Ty were practicing for a track cycling race. Andre covered a distance of 750 m in 3 minutes. Rick clocked 4 minutes for a distance of 800 m. Ty raced 950 m in 5 minutes. Who covered the least distance per minute?

5) Sam visits 3 stores to find the best deal for a pair of jeans. Store A offers a discounted price of $120 for 4 pairs of jeans. Two pairs of jeans sell for $100 at Store B. Store C offers 3 pairs of jeans at $99. Which store offers the best deal?

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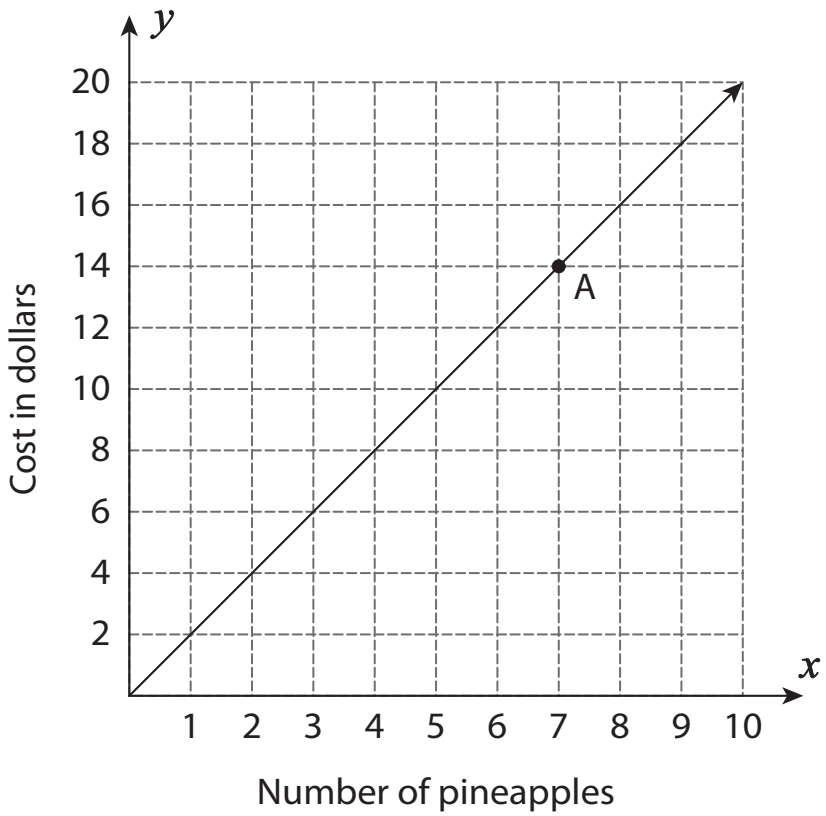
Proportional Relationship - Graph

Hannah and Nancy visits the farmer's market to buy pineapples. The graph below represents the number of pineapples and their corresponding costs. Read the graph and answer the questions that follow.



a) Find the unit rate represented on the graph. _____

b) What does point A represent on the graph ? _____

c) How many pineapples can Nancy buy for $8 from the farmer's market? _____

d) What is the cost of two pineapples? _____

e) How much will Hannah need to pay for 5 pineapples? _____