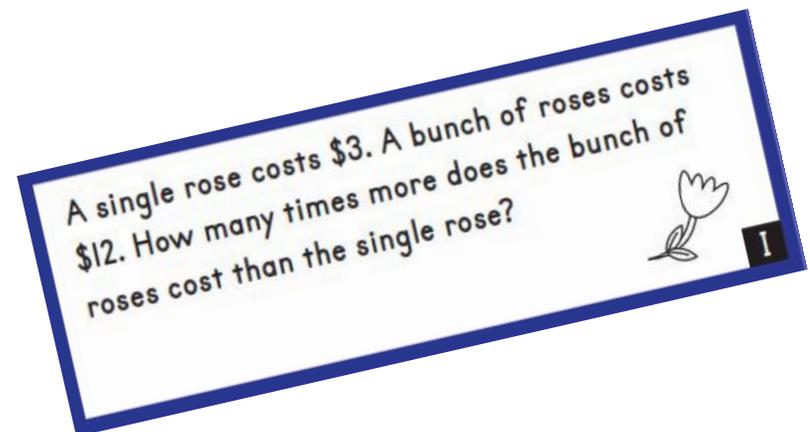


# Word Problems: Multiplicative Comparison

**Materials:** Multiplicative Comparison word problem cards

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1. Work with a partner. Choose five problems that you will both solve.
2. Solve the word problems independently. For each problem:
  - a) write an equation with a symbol for the unknown number
  - b) use a model to represent the problem
  - c) carry out the operations in the equation to solve the problem
  - d) check your work and consider whether your answer is reasonable
  - e) answer the question in a complete sentence
3. After completing five problems share your work with a partner. Use math vocabulary to explain how you solved each problem.
4. Repeat with another five problems from the set.



A red umbrella costs \$8.00. A blue umbrella costs 3 times as much as the red umbrella. How much does the blue umbrella cost?



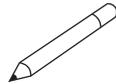
A

Tom ran 4 laps of the football field. Sam ran 5 times as many laps of the football field. How many laps did Sam run?



B

A pack of six pencils costs five times as much as a single pencil. A single pencil costs 9 cents. How much does the pack of pencils cost?



C

Write and solve your own multiplicative comparison problem. Draw a model and write an equation to solve the problem.



D

Sue ate 30 cherries. She ate 5 times as many cherries as Bob. How many cherries did Bob eat?



E

There are 20 monkeys in a zoo. There are 4 times as many monkeys as lions. How many lions are there?



F

Frankie and Tony went fishing. Tony caught 24 fish. He caught 6 times as many fish as Frankie. How many fish did Frankie catch?



G

This month Jane saved 6 times as much money as she did last month. If she saved \$42 this month, how much did she save last month?



H

A single rose costs \$3. A bunch of roses costs \$12. How many times more does the bunch of roses cost than the single rose?



I

A kangaroo weighs 50lb. A gorilla weighs 500lb. How many times heavier is the gorilla than the kangaroo?



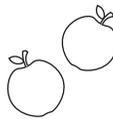
J

Jack read 5 times as long this week as he did last week. If he read for 110 minutes this week, how long did he read for last week?



K

Dad picked 5kg of apples. Aunt Sue picked 4 times as many apples as dad. How many more kilograms of apples did Aunt Sue pick than dad?



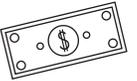
L

Ms. Lio has 20 dice. Mr. Smith has twice as many dice as Ms. Lio. He borrows all of Ms. Lio's dice for a math game. Each student needs 3 dice. How many students will be able to play the game?



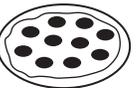
M

A hat is on sale for \$15. A pair of shoes cost four times as much. A jacket is half as much as the shoes. If Mark buys one hat, two pairs of shoes and one jacket, how much will he spend?



N

A family size pizza is \$24 and costs 3 times as much as a small pizza. Peter buys two family size pizzas and 3 small pizzas. How much does he spend in all?



O

Zoe counts 4 times as many black kittens as white kittens for sale at the pet store. She counts a total of 25 kittens. How many more black kittens does Zoe count than white kittens?



P