

CGI Multiplication & Division Problem Types

*adapted from *Children's Mathematics Cognitively Guided Instruction* by Carpenter, Fennema, Franke, Levi, Empson

	Multiplication	Measurement Division	Partitive Division
Grouping/ Partitioning	Karen has 3 apple trees. There are 7 apples on each tree. How many apples are there all together?	Karen has some apple trees. There are 7 apples on each tree. All together there are 21 apples. How many apple trees does Karen have?	Karen has 3 apple trees. There are the same number of apples on each tree. All together there are 21 apples. How many apples are there on each tree?
Rate	Susan runs 4 miles an hour. How many miles does she run in 6 hours?	Susan runs 4 miles an hour. How many hours will it take her to run 24 miles?	Susan runs 24 miles. It took her 6 hours. If she runs the same speed the whole way, how far did she run in one hour?
Price	Cakes cost 7 dollars each. How much do 5 cakes cost?	Cakes cost 7 dollars each. How many cakes can you buy for \$35?	Jake bought 5 cakes. He spent a total of \$35. If each cake cost the same amount, how much did one cake cost?
Multiplicative Comparison	The boa constrictor is 8 times as long as the garden snake. The garden snake is 2 feet long. How long is the boa constrictor?	The boa constrictor is 16 feet long. The garden snake is 2 feet long. The boa constrictor is how many times longer than the garden snake?	The boa constrictor is 16 feet long. He is 8 times as long as the garden snake. How long is the garden snake?