Class	Multiplication problem	Division (by multiplier)	Division (by multiplicand)
Equal groups	3 children each have 4 oranges. How many oranges do they have altogether?	12 oranges are shared equally among 3 children. How many does each get?	If you have 12 oranges, how many children can you give 4 oranges?
Equal measures	3 children each have 4.2 liters of orange juice. How much orange juice do they have together?	12.6 liters of orange jice is shared qqually among 3 children. How much does each get?	If you have 12.6 liters of oranged juiced, to how many children can you give 4.2 liters?
Rate	A boat moves at a steady speed of 4.3 meters per second. How far does it move in 3.3 seconds?	A boat moves 13.9 meters in 3.3 seconds. What is its average speed in meters per second?	How long does it take a boat to move 13.9 meters at a speed of 4.2 meters per second?
Measure conversion	An inch is about 2.54 centimeters. About how long in 3.1 inches in centimeters?	3.1 inches is about 7.81 centimeters. About how many centimeters are there in an inch?	An inch is about 2.54 centimeters. About how long in inches is 7.84 centimeters?
Multiplicative comparison	Iron is 0.88 times as heavy as copper. If a piece of copper weighs 4.2 kg, how much does a piece of iron of the same size weigh?	Iron is 0.88 times as heavy as copper. If a piece of iron weighs 3.7 kg, how much does a piece of copper of the same size weigh?	If equally sized pieces of iron and copper weigh 3.7 kg and 4.2 kg respectively, how heavy is iron relative to copper?
Part/whole	A college passed the top 3/5 of its students in an exam. If 80 students took the exam, how many passed?	A college passed the top 3/5 of its students in an exam. If 48 passed, how many students took the exam?	A college passed the top 48 out of 80 students who took an exam. What fraction passed?
Multiplicative change	A piece of elastic can be stretched to 3.3 times its original length. What is the length of a piece 4.2 meters long, when fully stretched?	A piece of elastic can be stretched to 3.3 times its original length. When fully stretched it is 13.9 meters long. What was its original length?	A piece of elastic 4.2 meters long can be stretched to a maximum of 13.9 meters. By what factor is it lengthened?
Cartesian product	If there are 3 routes from A to B, and 4 routes from B to C, how many different ways are there of going from A to C via B?	If there are 12 different routes from A to C via B, and 3 routes from A to B, how many routes are there from B to C?	
Rectangular area	What is the area of a rectangle 3.3 meters long by 4.2 meters wide?	If the area of a rectangle is 13.9 m^2, and the length is 3.3 m., what is the width?	
Product of measures	If a heater uses 3.3 kilowatts of electricity for 4.2 hours, how many kilowatt-hours is that?	A heater uses energy at the rate of 3.3 kilowatts. For how long can it run before it uses 13.9 kilowatt-hours?	