1. A bakery sells 12 muffins for $18. What is the price per muffin?
   a) $1.25
   b) $1.50
   c) $1.75
   d) $2.00

2. If 4 pens cost $6, how much would 10 pens cost?
   a) $10
   b) $12
   c) $15
   d) $18

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3. A map uses a scale of 1 cm : 5 km. If the distance between two towns on the map is 6 cm, what is the actual distance in kilometers?

4. A car travels at a speed of 60 kilometers per hour. Convert this speed into meters per second.

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5. A recipe calls for 3 cups of flour to make 12 cookies. How much flour is needed to make 30 cookies? Show your work.

6. A person earns $45 for mowing 3 lawns. How much would they earn for mowing 10 lawns at the same rate?

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7. The cost of apples is $2 per kilogram.
   a) Write a proportional equation to represent the relationship between the weight of apples (x) and the cost (y).
   b) Complete a table of values for $x = 1,2,3,4,5$.
   c) Plot the relationship on a graph.

8. Train A travels 180 km in 3 hours. Train B travels 240 km in 4 hours.
   a) Calculate the speed of each train in kilometers per hour.
   b) Which train is faster?

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9. A tank can be filled with 2 pipes. Pipe A fills the tank at a rate of 5 liters per minute, and Pipe B fills it at 3 liters per minute.
   a) How many liters will both pipes fill together in 10 minutes?
   b) If the tank has a capacity of 100 liters, how long will it take to fill it using both pipes simultaneously?

10. A car uses 8 liters of fuel to travel 100 km.
    a) How much fuel is needed to travel 350 km?
    b) If the fuel costs $1.50 per liter, what is the total cost of the fuel for 350 km?

11. A recipe for pancakes uses 4 cups of milk for every 6 cups of flour.
    a) If you want to use only 2 cups of milk, how much flour will you need?
    b) If you have 12 cups of flour, how much milk should you use?

12. A factory produces 240 widgets in 8 hours.
    a) What is the rate of production in widgets per hour?
    b) At this rate, how many widgets can the factory produce in a 5-hour shift?

13. Two cars have different fuel efficiencies. Car A uses 8 liters of gas to travel 120 km, while Car B uses 10 liters of gas to travel the same distance.
    a) Calculate the fuel efficiency (km per liter) of each car.
    b) If gas costs $1.80 per liter, how much will each car spend on gas for a 300 km trip?
    c) Which car is more economical, and by how much?