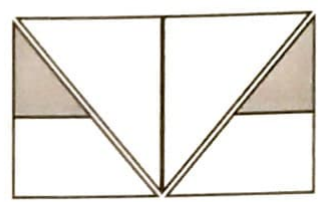
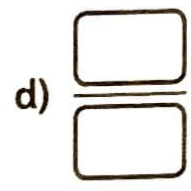
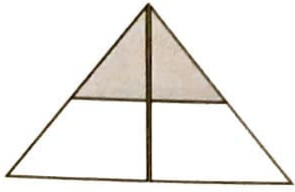
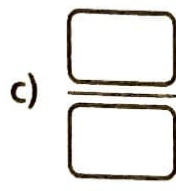
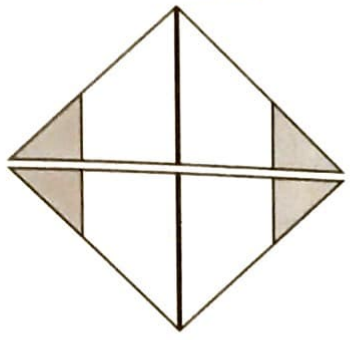
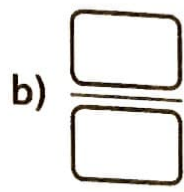
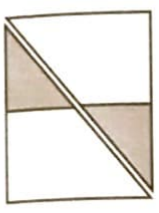
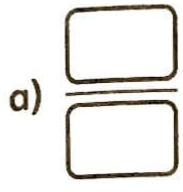
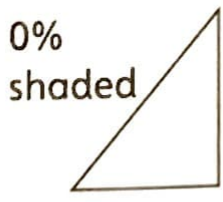
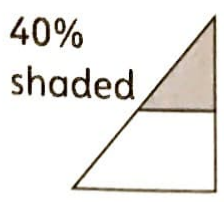
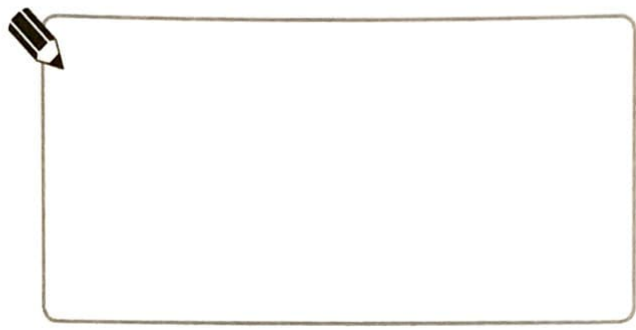


# Mixed problem solving

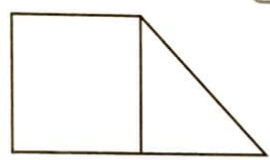
1 Patterns are made from these two tiles.  
What fraction of each design is shaded?



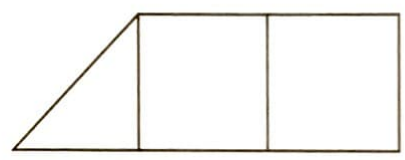
e) Use the tiles to design a pattern that has  $\frac{1}{10}$  shaded.



2 This is 30% of a shape.



a) What fraction of the whole shape is this?

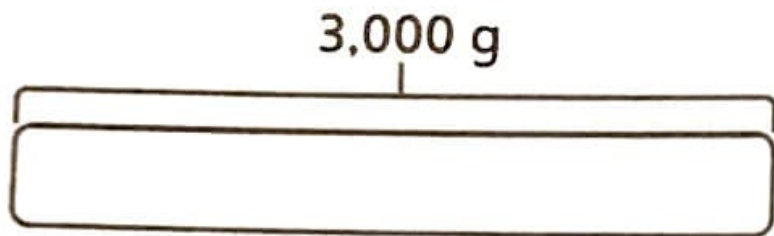


This is  $\frac{\square}{\square}$  of the whole shape.

b) Draw what the whole shape could look like.



- 3 Andy buys 3,000 g of fruit.  $\frac{3}{10}$  of the weight is apples. 45% is bananas. The rest is grapes. What is the weight of the grapes?

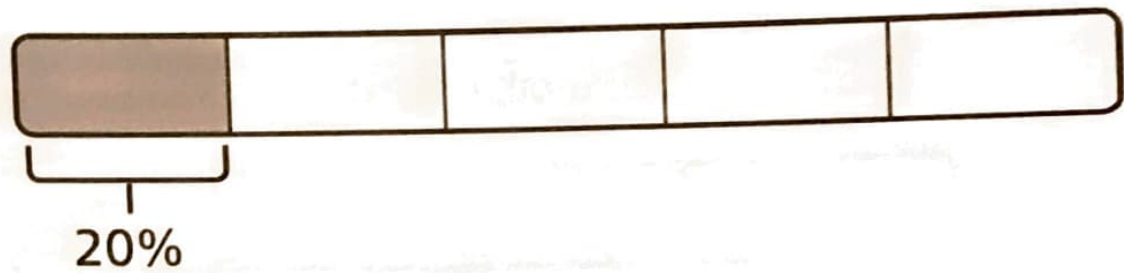


The grapes weigh  g.



A large empty rectangular box with rounded corners, intended for the student to show their work or write the answer.

## Reflect



Write a story problem about percentages and fractions that fits this bar model.

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