

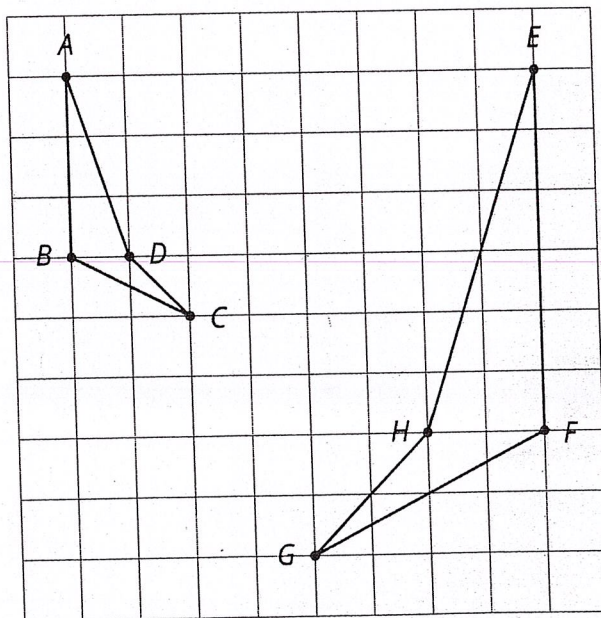
1. Here are recipes for two different banana cakes. Information for the first recipe is shown in the table.

sugar (cups)	flour (cups)
$\frac{1}{2}$	$\frac{3}{4}$
$2\frac{1}{2}$	$3\frac{3}{4}$
3	$4\frac{1}{2}$

The relationship between cups of flour y and cups of sugar x in the second recipe is $y = \frac{7}{4}x$

- a. If you used 4 cups of sugar, how much flour does each recipe need?
- b. What is the constant of proportionality for each situation and what does it mean?

2. Show that the two figures are similar by identifying a sequence of translations, rotations, reflections, and dilations that takes the larger figure to the smaller one.



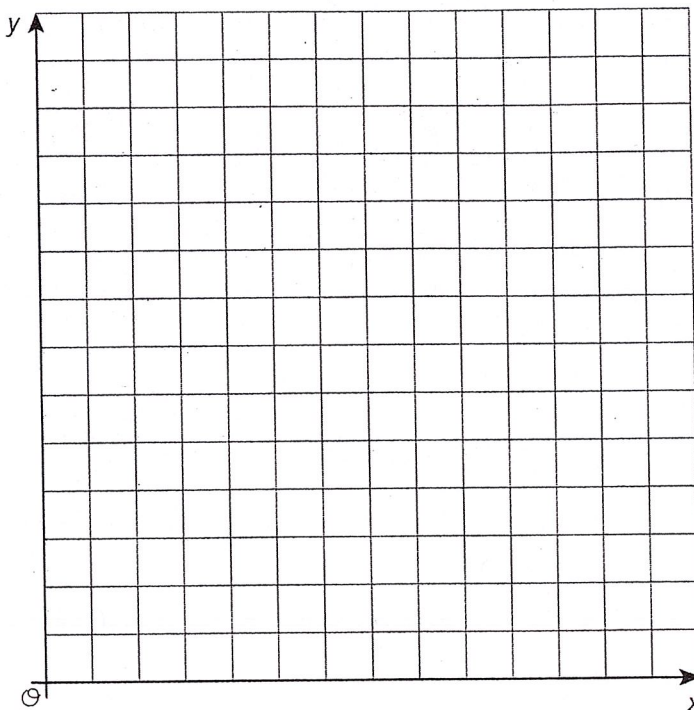
3. Create a graph that shows three linear relationships with different y-intercepts using the following slopes, and write an equation for each line.

Slopes:

○ $\frac{1}{5}$

○ $\frac{3}{5}$

○ $\frac{6}{5}$



4. The graph shows the height in inches, h , of a bamboo plant t months after it has been planted.

a. Write an equation that describes the relationship between h and t .

b. After how many months will the bamboo plant be 66 inches tall? Explain or show your reasoning.

