

Math 4b, Homework 16



1. Mark and Julia live on the same straight street. The distance between their houses is 6 km. They decided to meet and started moving towards each other at the same time. Mark walked at a speed of 5 km/h and Julia walked at a speed of 3 km/h. In how many minutes they will meet?
2. Houses of Winnie the Pooh and Piglet are on the same street 600 m apart. At the same time, they started moving in the opposite directions. Pooh was walking with the speed of 3 km/h and Piglet was running with the speed of 6 km/h. How far from each other they will be in 20 minutes? (Hint: convert minutes to hours.)
3. Fill the empty spaces:

Example: $8 + (-3) = 5$

a. $8 + \dots = 5$

b. $15 + \dots = 0$

c. $(-4) + \dots = -6$

d. $(-1) + \dots = -1$

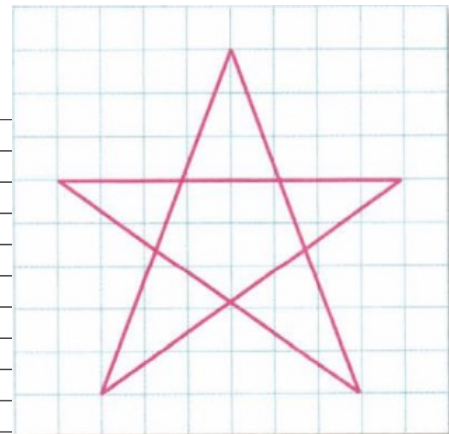
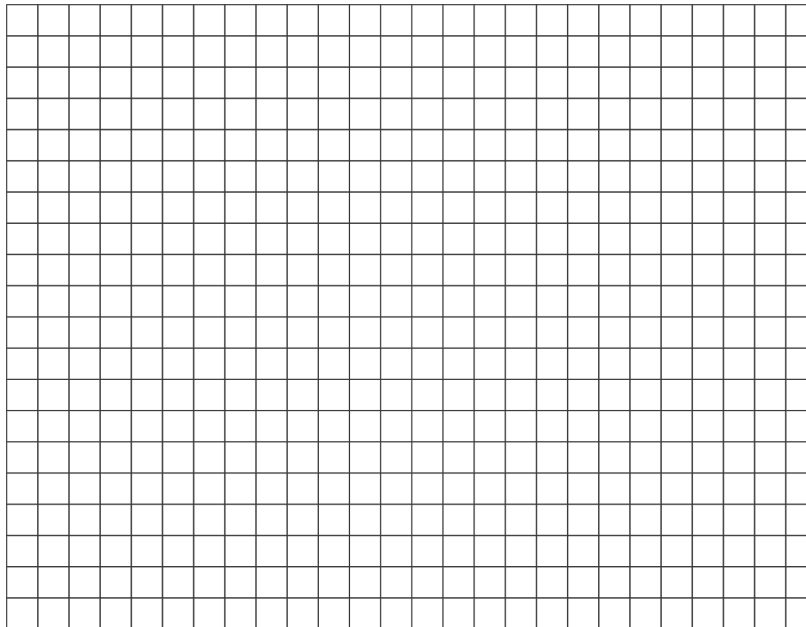
e. $(-10) + \dots = -5$

f. $8 - \dots = 12$

g. $-4 - \dots = 4$

h. $6 - \dots = -2$

4. Copy the star on the graph paper below.
Use a ruler to draw segments.

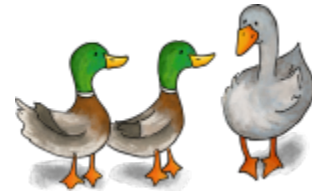


5. The speed of the boat in a still water on a lake is 12 km/h. The speed of the river flow is 3 km/h. How many hours does the boat need to go from the city MathLand to the city GeometryVille if the distance between the two cities is 45 km and the MathLand is up on the river, i.e. the river flows from the MathLand to GeometryVille?

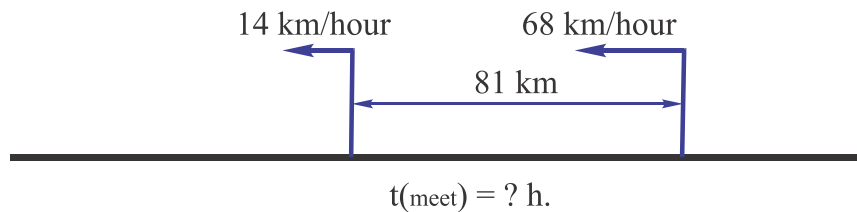


How many hours does this boat need to go back from the the GeometryVille to the MathLand?

6. 4 little ducklings and 5 little geese weight 4 kg and 100 g. 5 little ducklings and 4 little geese weight 4 kg. How much does one little goose weight.



7. Come with the word problem corresponding to the picture below and solve them:



8. Aunt Sally asked Tom Sawyer to paint $\frac{2}{5}$ of the whole fence. He asked his friend Ben Rogers to help him and Ben painted $\frac{1}{4}$ of that part of the fence. What is the length of the fence if Ben painted $2\frac{1}{2}$ m.

