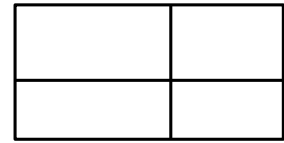


1. Remove parenthesis:

$$(x + 3)(x - 2) = \underline{\hspace{4cm}}$$

$$(y + 2) \cdot (2y + 5) = \underline{\hspace{4cm}}$$

$$(2w + 1)^2 = \underline{\hspace{4cm}}$$

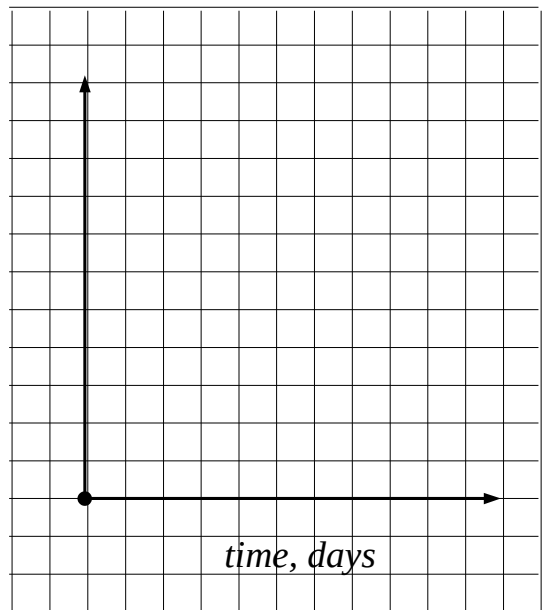
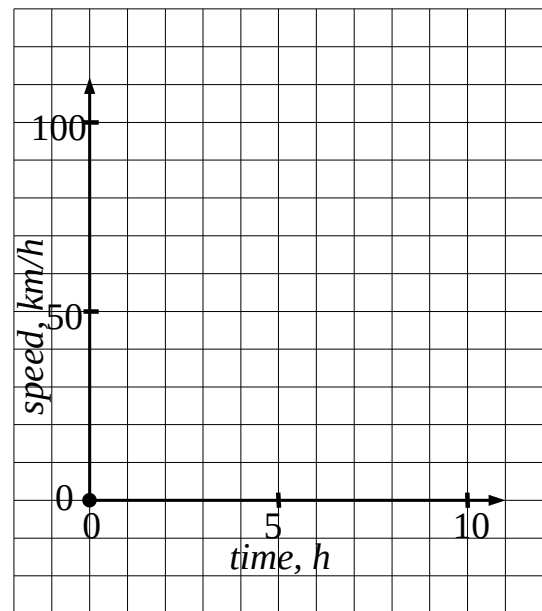


2. Make a graph and use it to solve the word problems below:

a). A car going from city A to city B located 300 km away from A. At first it was moving on a side road at 60 km/h. How long did it take the car to get to the highway that was 180 km away?

On the highway the car started moving 120 km/h. How long did it take to get to city B?

3. A lion in a zoo eats 5 kg of meat a day. 20 days later the zoo buys another lion that eats 4 kg of meat a day. How much meat would the zoo need for the first 60 days?



4. Analyze the production of freezers on a factory.

What was the initial productivity of the factory?

How long did it take the factory to produce 210 freezers?

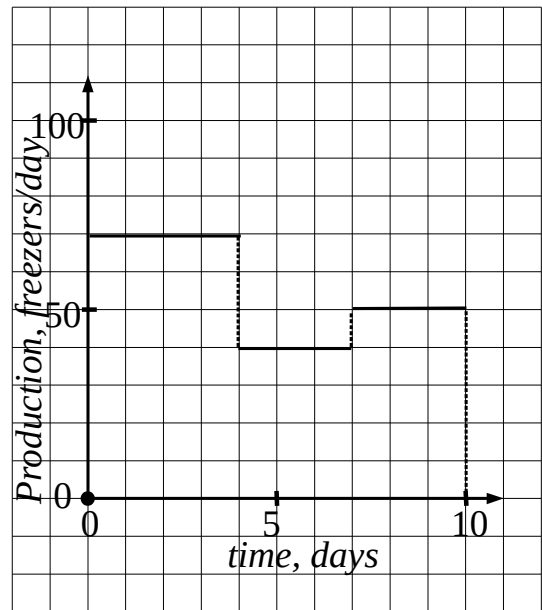
After how many days did the productivity drop?

How many freezers did the factory produce before its productivity dropped?

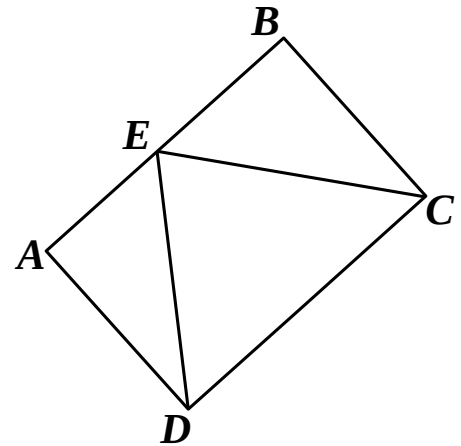
How many freezers did the factory produce in the first 7 days?

How long did it take the factory to produce 360 freezers?

How many freezers did the factory produce in 10 days?



6. Given rectangle **ABCD**. $|AB| = 6$ cm, $|BC| = 4$ cm. Find the area of the triangle $\triangle DCE$.



7. Solve the equations:

a) $2 \cdot (4x - 1) + (6x - 63) : 3 = \frac{1}{2} (6x - 4)$

b) $|2x - 1| = 5$

c) $\frac{1}{1 - \frac{2}{x}} = 3$