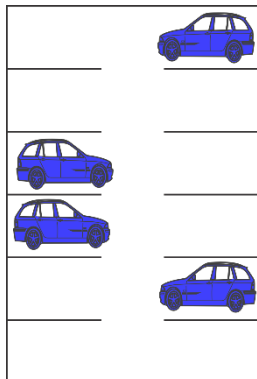Math 4d, Homework 24.

1. List all topics you want to be reviewed.
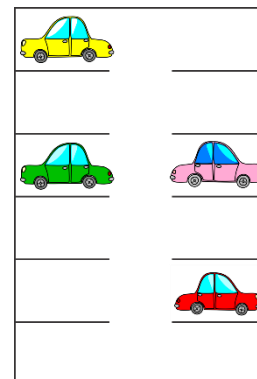2. Find $x$ so that the expressions below are true.

   a. $2^x \cdot 2^x = 64$           b. $3^x \cdot 9 = 81$

3. Apartment building has 12 apartments and a parking for 12 cars (each family has different car). How many different ways are there to park these 12 cars?

   4.           Today there were only 4 cars at the parking lot. How many different ways are there to park 4 cars on a 12-place parking lot?
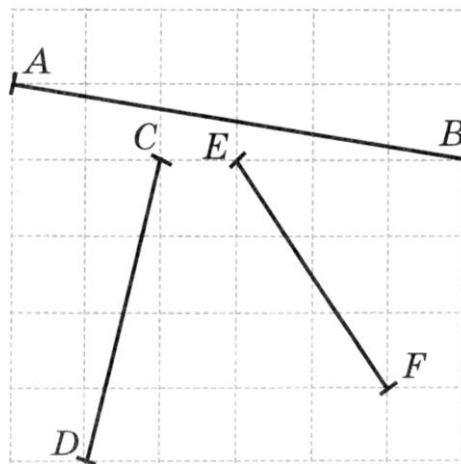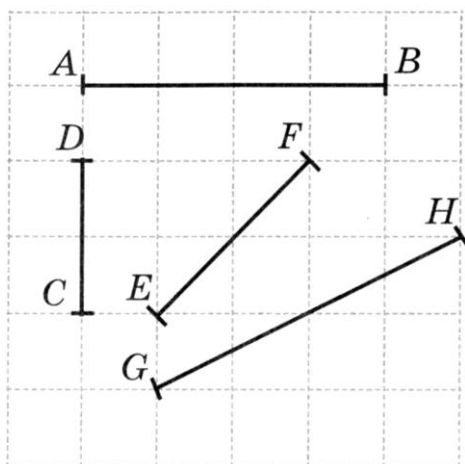
   5.           There is a 12-place parking lot at the dealership. 4 identical cars are parked there. How many different way are there to park these 4 cars?
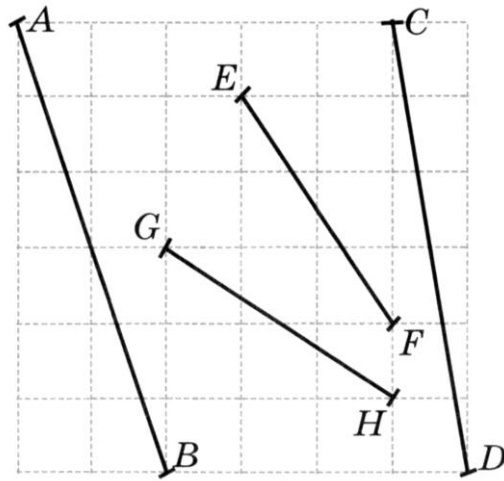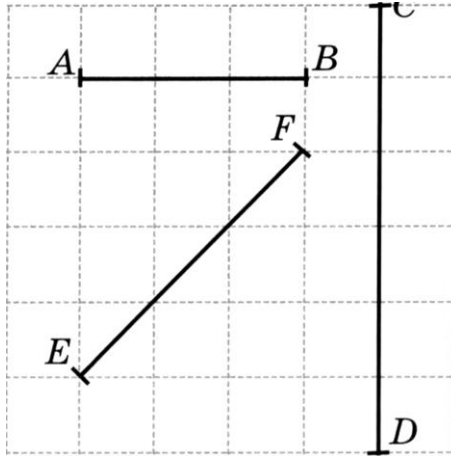
6. Three children - Linda, Richard and Bella - were fishing. Richard and Linda caught 11 fish, Bella and Richard 15, Linda and Bella 14. How many fish did all three catch together?

   For the next problems, try to explain your answer, not just mark a point. Explain, why did you choose this particular point.

7. Find the midpoints of the segments.

8. Find the points which divide the segments into three equal parts.



9. The sum of seven numbers is even. Even or odd will be the product of these same numbers?

10. Evaluate (answer is 2.5):

$$\frac{21.75 - 18\frac{3}{8}}{1.8 : 0.4 \cdot 0.3}$$