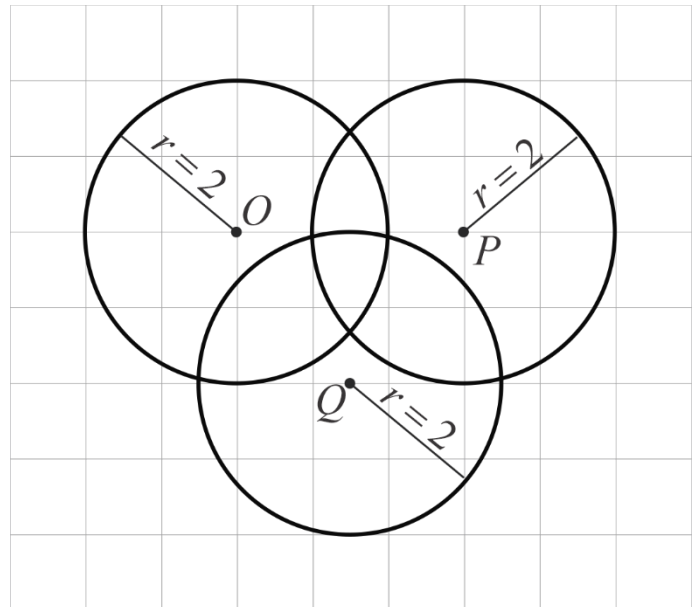
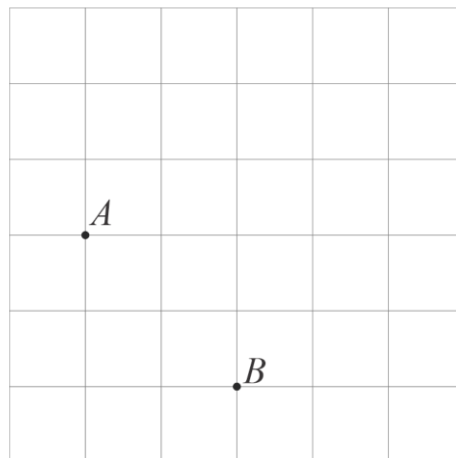
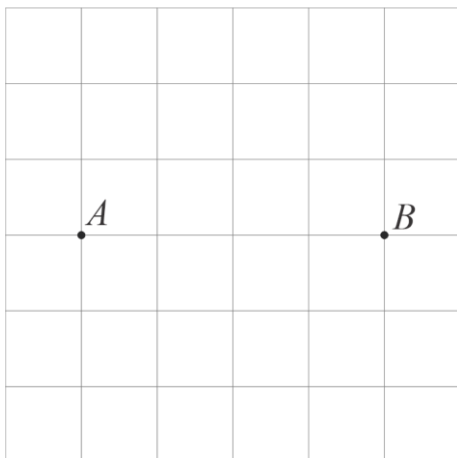


1. Shade the area where points are less than 2 cm from point O, more than 2 cm from point P and more than 2 cm from point Q.



2. Mark all points that are equidistant from points A and B (use grid, you don't need to use compass, but use ruler!).



3. After walking  $\frac{1}{3}$  the length of the bridge, the donkey Eeyore noticed a car approaching at a speed of 60 km/h. If the donkey runs back, he will meet the car at the beginning of the bridge; if he runs forward, the car will catch up with him at the end of the bridge. What is the speed of the donkey Eeyore?
4. Two square carpets were brought into a large square hall, with one carpet's side being twice as long as the other. When the carpets were placed in opposite corners of the hall, they covered 4 square meters in two layers, and when they were placed in adjacent corners, they covered 14 square meters. What are the dimensions of the hall?

5. Three salt solutions with identical weights were mixed together. The concentration of salt in the first solution is 18% (meaning 18% of the total weight is the weight of salt), and the concentration in the second solution is 7%. What is the concentration of the third solution if the concentration of the mixture is 10%?

6. Simplify the following expressions (use the distributive property, combine like terms):

- a.  $5(a + 2) - 12$ ;      b.  $2(m - n) - (m + n)$ ;      c.  $3(b - 1) - 2(b - 2)$ ;  
 d.  $9 - 2(-c + 4)$ ;      e.  $(x - y) - 2(x + y)$ ;      f.  $-2(d + 3) + 3(2 - d)$ ;  
 g.  $m - 3(2 - m) + 8$ ;      h.  $-2(a + b) + 2(a - b)$ ;      i.  $5y - 2(y - 1) + 3(-y - 4)$

7. What is the measure of angles on the pictures below?

