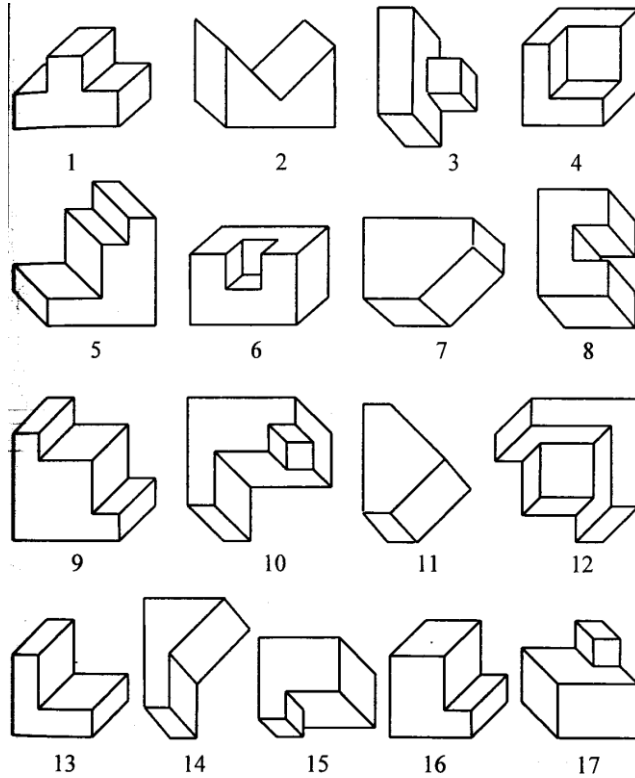


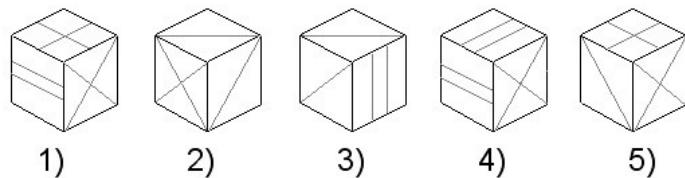
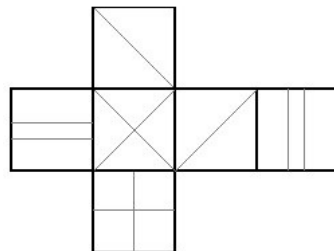
Math 5b, homework 23.



1. Among the given figures, identify the pairs that combine to form a cube.



2. Which cube has a net as shown in the picture?



3. Compare:

- a. 10^{11} and $11 \cdot 10^{10}$;
- c. $5 \cdot 10^7$ and $0.5 \cdot 10^8$;

- b. $(-4)^{18}$ and $-5 \cdot (-4)^{17}$
- d. $-4 \cdot (-3)^{32}$ and $(-3)^{33}$

4. The journey from home to school and back takes Olga $\frac{1}{2}$ hour. She goes to school at a speed of $6 \frac{km}{h}$ and back at a speed of $3 \frac{km}{h}$. What is the distance from home to school?

5. Solve the equations:

a. $4(x - 7) = 3x + 5;$

b. $2u - 3(7 - 2u) = 3$

c. $-5x + 3(3 + 2x) = 7;$

d. $12 - y = 5 \cdot (4 - 2y) + 10$

6. Write as binary numbers:

a. 199;

b. 83

d. 32

7. Write in decimal system:

a. $11010111_b;$

b. 11101101_b