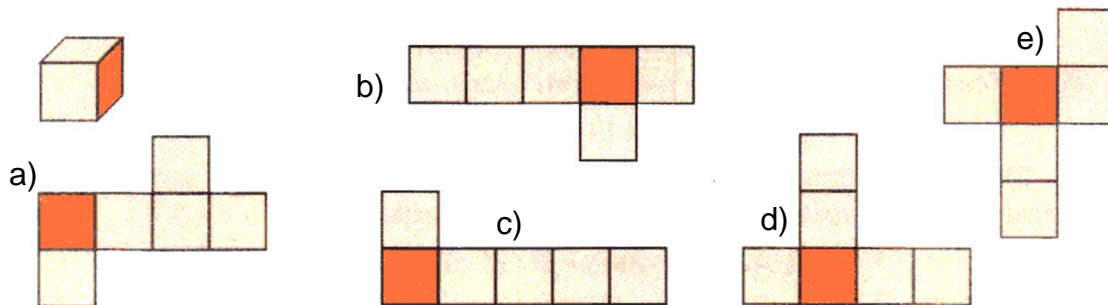


Math 4d, Homework 11.

1. What number should be placed instead of “?”



2. Which of the pictures below are the cub nets?



3. Compare, if possible:

$$|7 + 3| \quad |7| + |3|$$

$$|7 - 3| \quad |7| - |3|$$

$$|7 - 3| \quad |3 - 7|$$

$$|3 - 7| \quad |3| - |7|$$

$$|a - b| \quad |b - a|$$

$$|7 - 3| \quad |7| + |3|$$

$$|3a| \quad 3 \cdot |a|$$

$$|a + b| \quad |a| + |b|$$

$$|b \cdot a| \quad b \cdot |a|$$

4. Which number should be placed instead of x to get an equality.

a) $25 \cdot x = -25$;

b) $x : 1 = -7$;

c) $x \cdot (-18) = 0$;

d) $-26 : x = 26$;

e) $x \cdot (-30) = 30$;

f) $x : (-8) = 0$;

g) $-19 \cdot x = 19$;

h) $x : (-1) = -1$?

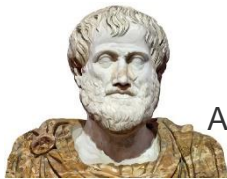
5. Solve the following equations:

a. $|x| = 23$;

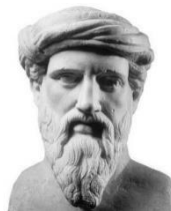
b. $|2x| = 10$;

c. $|x + 1| = 10$

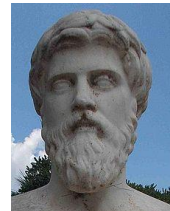
6. Ancient Greek scientist Aristotle was born in 384 and died in 322. Another Greek scientist Pythagoras was born in 570 and dies in year 495. Ancient Greek historian Plutarch was born in 46 and died in 120. Who among them was born earlier? For how long did they live?



Aristotle



Pythagoras



Plutarch

7. Big rectangle contains 9 squares. The side of red square is 1 unit; the side of blue square is 7 units. Find sides of all other squares.

