Homework 15

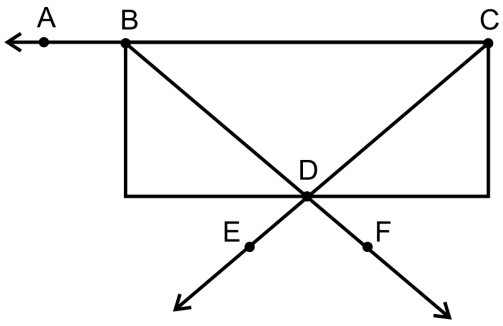
1.

Follow the instructions and answer the questions.

1. Plot two points, D and E. Then draw a line DE.
2. Plot point Q not on the line DE.
3. Draw rays DQ and EQ.
4. Find angles EDQ and DEQ in your drawing
   a. Is angle EDQ acute?_____
   b. Is angle DEQ obtuse?_____

2.

Look at the drawing and answer the following questions:



a) Find the angle formed by the rays DE and DF.
How do we name it? _____

b) Find the angle formed by the rays CA and CE.
How do we name it? _____

c) What is BD? (a line, a line segment, or a ray)?
_____

3.

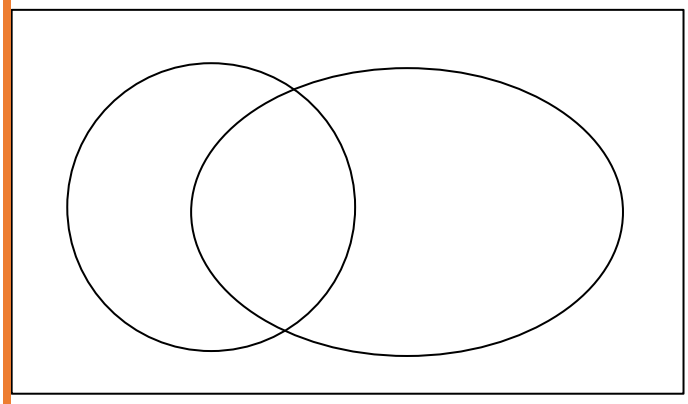
Calculate: 3 dm 7 cm + 4 dm 5 cm = _____

26 cm + 3 dm 8 cm = _____

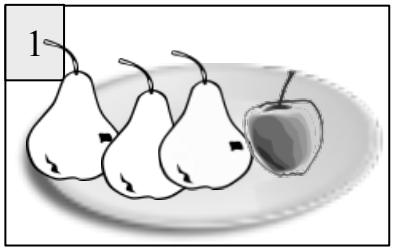
7 dm 2 cm – 56 cm = _____

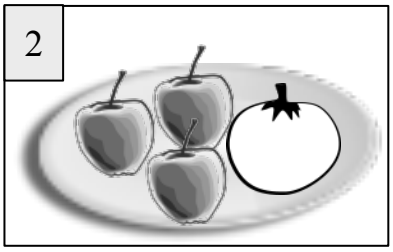
6 dm 8 cm – 9 cm = _____

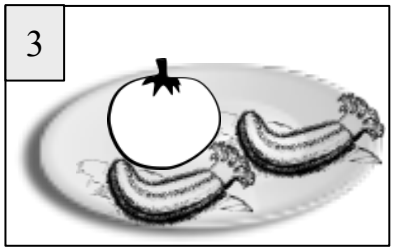
4. Write the numbers of the plates with apples and pears into the **Venn diagram**. Count how many plates are in each set and write your answers in the squares (last column)

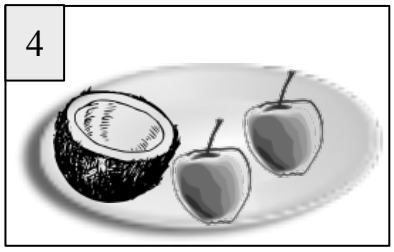


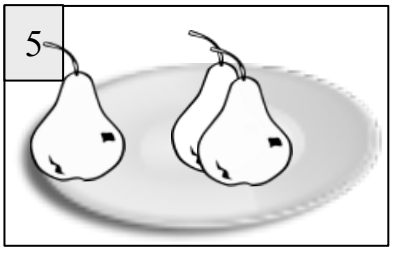
Sets	
- Plates on the picture	
- Plates with apples	
- Plates with pears	
- Plates with both apples and pears	
- Plates with fruits (either apples or pears)	
- Plates without fruits	3

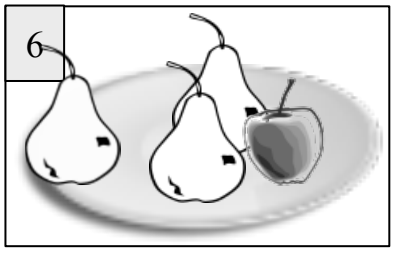


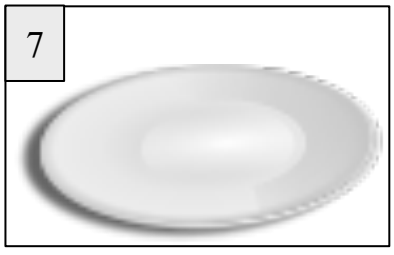


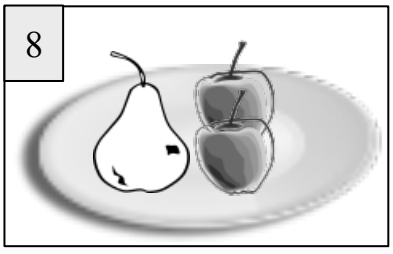


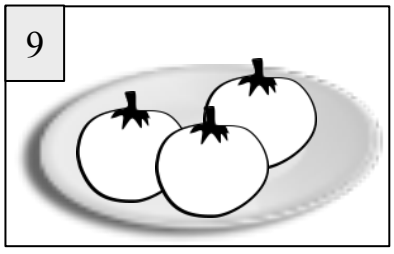


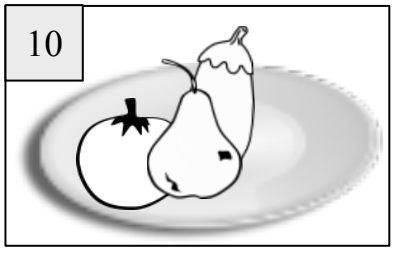




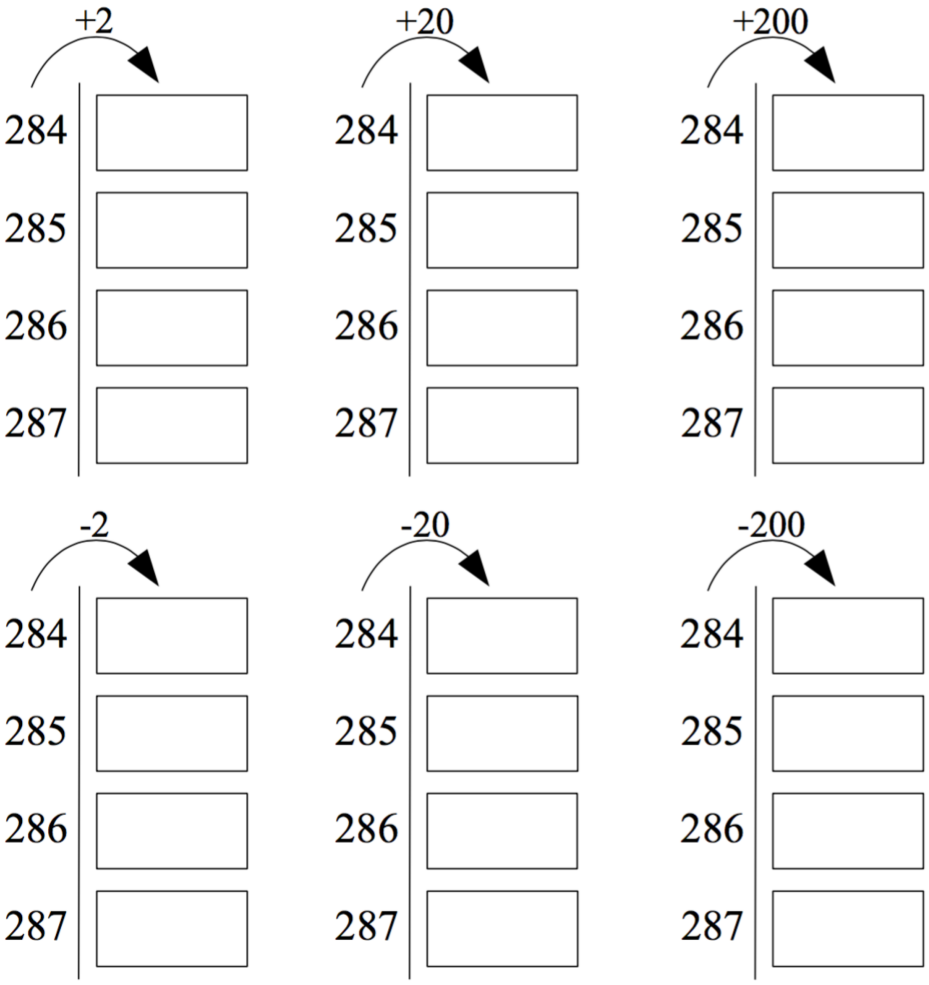








5. Perform the operations. What do you notice?



6. Solve for x and check your answer:

$x + 42 = 418$ $271 - x = 35$ $x - 26 = 345$

7. Calculate:

$1 \times 0 =$ _____ $7 \times 1 =$ _____ $0 \times 4 =$ _____ $1 \times 17 =$ _____

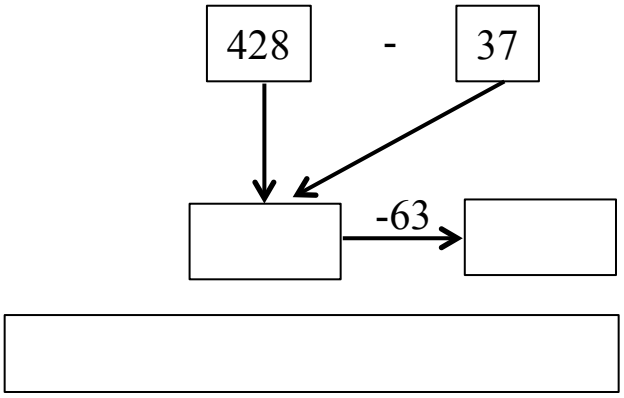
$0 \times 18 =$ _____ $13 \times 0 =$ _____ $1 \times 9 =$ _____ $15 \times 1 =$ _____

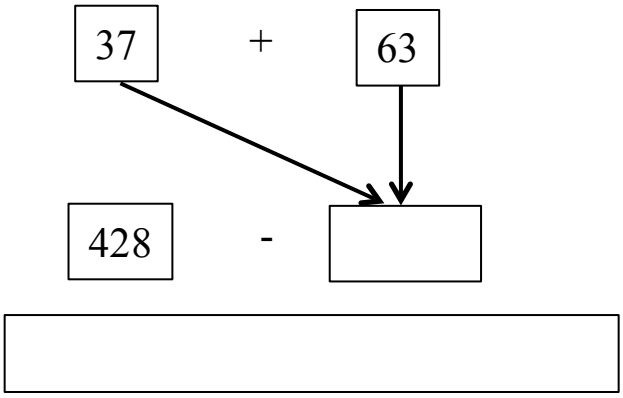
8. Solve the equations:

$9 \times x = 9$ $p \times 7 = 7$ $22 \times r = 0$ $q \times 17 = 0$

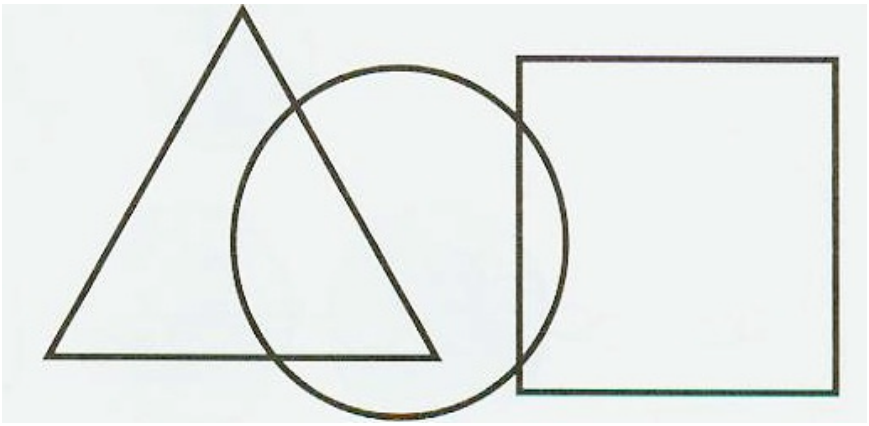
$x =$ ____ $p =$ ____ $r =$ ____ $q =$ ____

9. Write a correct expression in each case. Calculate the value of both expressions.



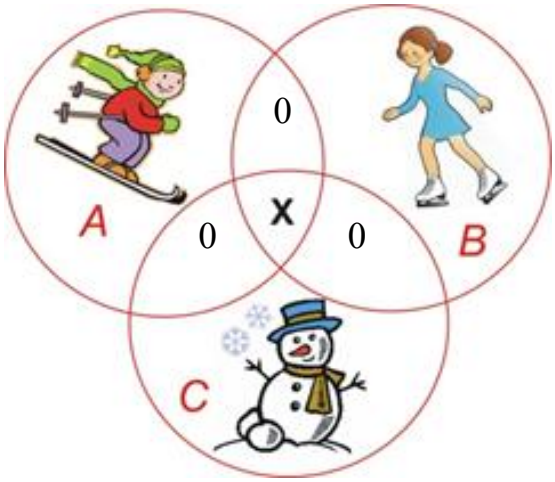


10. Color the circle, triangle and a square in a way that circle lies on the top of both triangle and square.

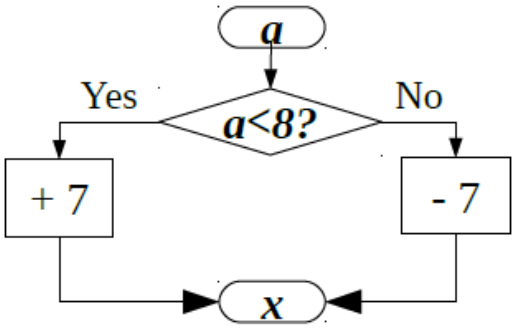


11.

There are 24 students in the class. They all have had a wonderful winter break and participated in various activities. 10 of them went skiing, 16 went skating and 12 were making a snowman. None of the students were involved in 2 activities. How many students could do all 3 activities?



12. Perform the calculations for each value of ***a*** in the table according to the algorithm and write your answers into the bottom row of the table.



a	3	5	7	8	10	11	13	15
x								

13. Open the parentheses and calculate using the most convenient way:

43 + (19 + 7) = _____

156 + (94 – 56) = _____

247 – (47 + 50) = _____

890 – (390 + 40) = _____

107 + (56 – 17) = _____

432 – (150 – 18) = _____

(350 +49) – 29 = _____

(107 – 36) + 46 = _____

(205 -184) + 194 = _____