Math 2 Homework 28

1 ***Solve equations:***

$x + 209 = 507$	$905 - x = 459$	$x - 307 = 428$
$x =$ _____	$x =$ _____	$x =$ _____
$x =$ _____	$x =$ _____	$x =$ _____
Check: _____	_____	_____

2

Write an expression for each problem.

There are ***m*** fish in an aquarium, and then ***k*** more fish were added. How many fish are in the aquarium? _____

There are ***d*** fish in the aquarium and we remove ***p*** fish from the aquarium. How many fish are in the aquarium? _____

There are ***f*** fish in the first aquarium and ***j*** fish in the second aquarium. How many more fish are in the first aquarium than in the second one? _____

There are ***n*** fish in the first aquarium and ***t*** fish in the second aquarium. We remove ***b*** fish from the first aquarium. How many fish are in both aquariums? _____

3 ***Mark the order of operations and find the result:***

$23 + (9 - 7) =$ _____ $60 - (4 + 7) + 4 - (10 - 8) =$ _____

$13 - 3 + 9 =$ _____ $27 - (4 + 3) - 1 - (10 + 5) =$ _____

$20 - (3 + 2 - 1) =$ _____ $50 - (14 + 6) - 1 - (10 - 5) =$ _____

HW 28

4 ***Open the parentheses, simplify if possible:***

59 + (*k* + b) =_____ 100 + (p - 15) =_____

a + 3(k + *b*) =_____ 52 – 2(p + 15) =_____

56 + 5(k - b) = _____ 52 – 2(p - 15) =_____

5 ***Convert the following measurements.***

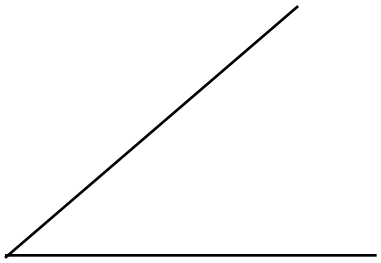
1 m 2 dm 7 cm = _____ cm 270 cm = ____dm 3 m 7 cm = _____ cm

507 cm = ____ m ____ cm 40 m = _____ cm 29 cm = ___ dm ___ cm

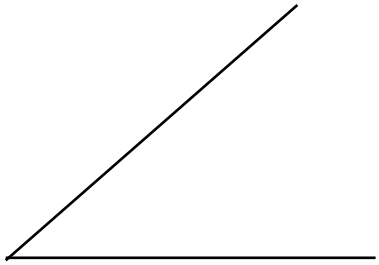
911 cm = ____ dm ____ cm 30 dm = _____ m 5 m 4 dm = _____ cm

6 Draw a second angle for each case so that the intersection of the two angles would be:

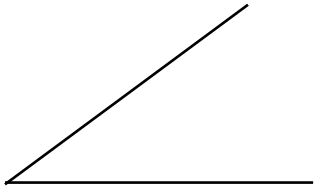
a) ... a point;



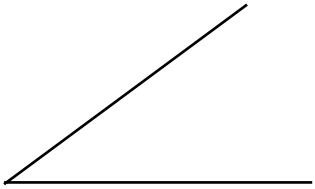
c). ...a triangle;



b). ... a ray;



d). ...a line segment



7 ***Compare:***

28 – 5 ☐ 28 – (5 + 1) 28 + 5 ☐ 28 + (5 + 1)

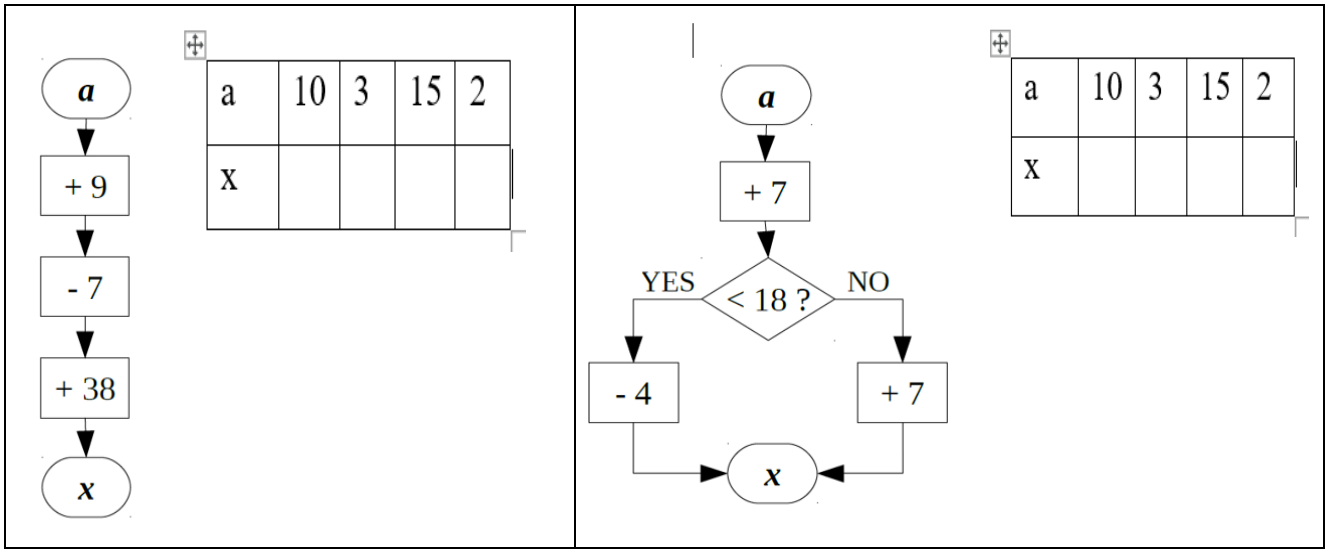
28 – 5 ☐ 28 – (5 – 2) 28 + 5 ☐ 28 + (5 – 1)

28 – 5 ☐ 28 – (5 + *a*) 28 + 5 ☐ 28 + (5 + *a*)

28 – 5 ☐ 28 – (5 – *b*) 28 + 5 ☐ 28 + (5 – *b*)

HW 28

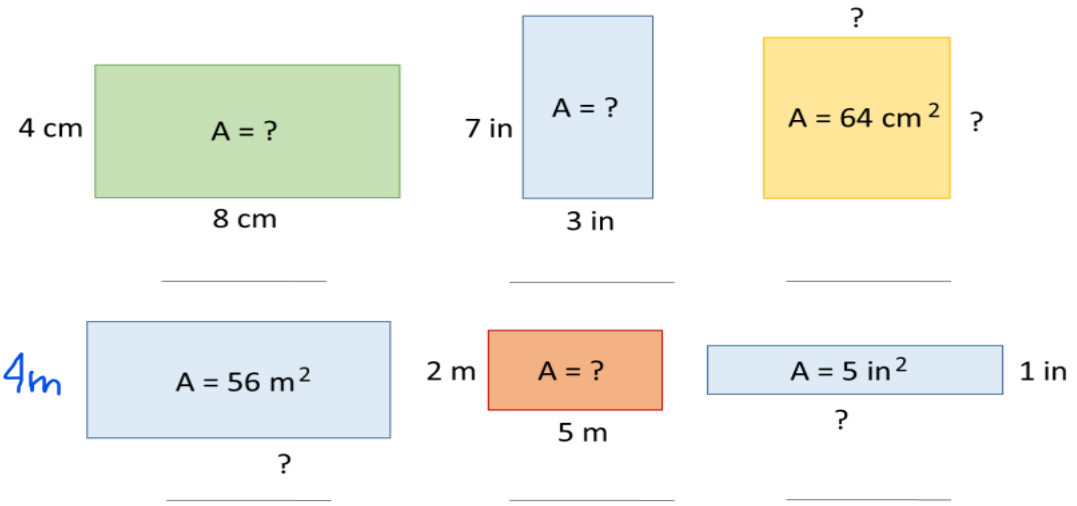
8 ***Perform the actions according to the algorithms in the drawing below. Which of these algorithms is linear and which is branching?***



9

Find: 1) area or side of the rectangle

2) perimeter of each figure.



10 ***Compare:***

$6 \times 2 \square 6 : 2$ $\quad c \times 2 + c \square c \times 3$ $\quad 5 \times 2 \square 5 + 2$

$7 \times 3 \square 6 + 6 + 6$ $\quad y \times 4 + y \times 2 \square y \times 5$ $\quad q \times 2 \square q : 2$

$6 : 3 \square 6 : 2$ $\quad 24 : 6 \square 24 : 4$ $\quad t : 2 \square t : 3$

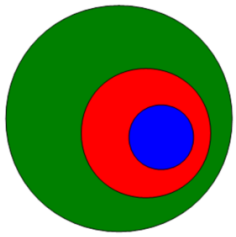
HW 28

11 ***For each multiplication fact, write also a division fact.***

a. 7 × 2 = _____ _____ ÷ 2 = _____	b. 12 × 2 = _____ _____ ÷ 2 = _____	c. 8 × 5 = _____ _____ ÷ 5 = _____
d. 6 × 7 = _____ _____ ÷ ____ = _____	e. 7 × 7 = _____ _____ ÷ ____ = _____	f. 11 × 3 = _____ _____ ÷ ____ = _____
g. 9 × 8 = _____ _____ ÷ ____ = _____	h. 1 × 5 = _____ _____ ÷ ____ = _____	i. 7 × 9 = _____ _____ ÷ ____ = _____

12 ***Color the circles that represent different groups***

A.

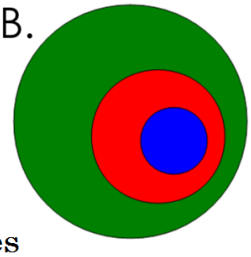


○ – Buses

○ – Cars

○ – School Buses

B.



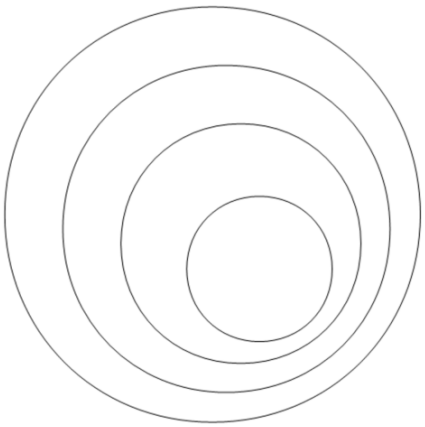
○ – Children

○ – People

○ – Girls

13

Color the circles using the table:



Sets of	
●	- Predators
●	- Tigers
●	- Bengal tigers
●	- Animals

HW 28

14 Write down an equation and solve it:

a) The first addend is unknown, the second in 13. The sum is 75. Check!

_____

_____

_____

_____ ✔

b) Subtract 47 from x and get 52. Check your answer.

_____

_____

_____

_____ ✔

15 Write an equation for the problem and solve.

a) 24 apples were equally divided between ***x*** people. Each person got 6 apples.

_____

_____

_____

_____ ✔

b) Kate had total 56 toys. She prepared ***y*** goody bags with 8 toys in each bag. How many goody bags were in each bag?

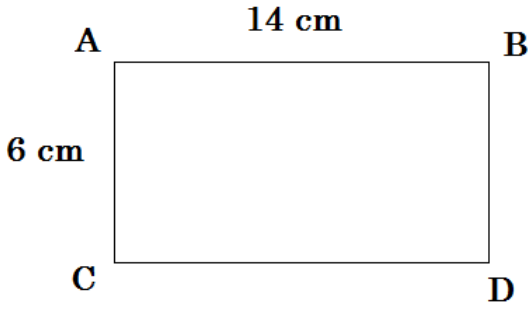
_____

_____

_____

_____ ✔

16 Find perimeter (the total length of the sides) of the rectangle ABCD three ways:



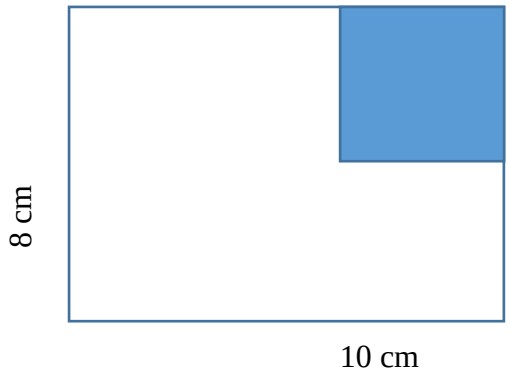
1)_____

2)_____

3)_____

HW 28

17 Find the area of a white shape two different ways, if you know that the blue shape is a square with a side of 5 cm.



1)_____

_____

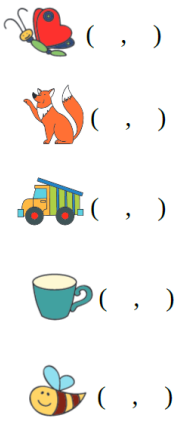
2)_____

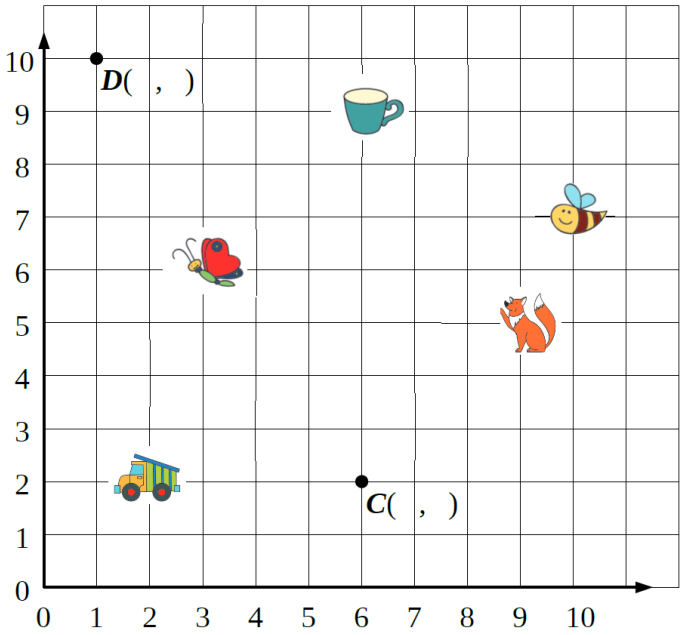
_____

18 Find coordinates of the points ***C*** and ***D*** as well as the coordinates of the other objects.

C (,)

D (,)





19 Solve equations:

76 – **y** = 42	**x** - 76 = 14	***z*** – 12= 95
y =	**x** =	**z** =
y =	**x** =	**z** =
Check:	Check:	Check:
5 × **y** = 35	**x** ÷ 6 = 8	***z*** × 7= 42
y =	**x** =	**z** =
y =	**x** =	**z** =
Check:	Check:	Check