Math2. Final Test.

TIME your work:
Start:_____finish:_____ Total time spent:_____

What did we learn this year?

1 Calculate:

			7	6				4	5	2				6	2	8				3	6	8	8	
		+	1	8			-		4	4			+	1	5	3			+	1	5	9	4	

			5	4				6	2				3	3				5	4	3				
		x		5			x		4			x		7			x			3				

2 Solve equations, make sure you check your results!

26 + **y** = 39	**x** - 63 = 18	**z** × **4** = 24
y = _____	**x** = _____	**z** =_____
y = _____	**x** = _____	**z** = _____
Check: _____	Check: _____	Check:_____

3

Write down the numerical expression and find the value:

a) Subtract 15 from the sum of 25 and 13: _____

b) Add 102 to the difference between 22 and 15: _____

c) Multiply the difference between 25 and 17 by 3: _____

4 Write down an expression which matches the statement:

a) There are ***7*** red apples and ***5*** green apples in a basket. How many apples altogether are in the basket? _____

b) There are ***d*** apples in a basket, and we take away ***5*** apples. How many apples are left in the basket? _____

c) Peter read 3 books last month and his mother read two more books then he did. How many books they read altogether last month? _____

d) Julia had ***a*** red apples and ***b*** green apples. She gave ***n*** red apples and ***k*** green apples to her friend.

-How many apples total did she have at the beginning: _____

-How many apples total did she have at the end?_____

5 **Mark the order of operations and calculate:**

$4 \times 3 + 2 =$_____ $12 - 3 \times 2 =$_____

$(4 + 3) \times 2 =$_____ $12 \times 2 - 3 \times 2 =$_____

$5 \times 4 - 2 =$_____ $5 \times (4 - 2) =$_____

6

Compare expressions using >, <, or =:

$a \square a + c$	$a + b \square b + a$	$38 - b \square 68 - b$
$b \square b - 5$	$k + 26 \square 62 + k$	$a - 0 \square a + 0$
$4+4 \square 4 \times 4$	$25 \div 5 \square 25 - 5$	$4 \times 6 \square 8 \times 3$

7 Convert the following measurements.

3 m 5dm 6 cm = _____ cm

3m 6 cm = _____ cm

325 cm = ____ m ____dm ____ cm

56 cm = ___ dm ___ cm

3kg = _____ g

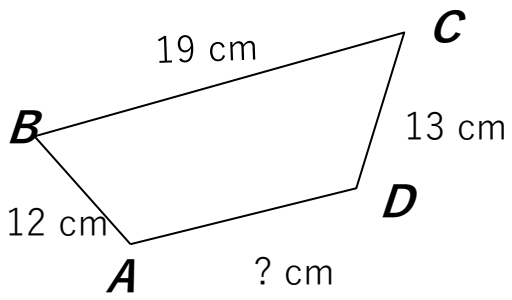
5000mL = ____L

6000g = _____ kg

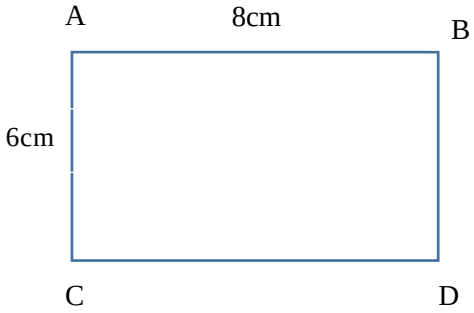
7L = _____ mL

8 a) The perimeter of the quadrilateral ***ABCD*** equals 55cm. What is the length of side ***AD***?

_____



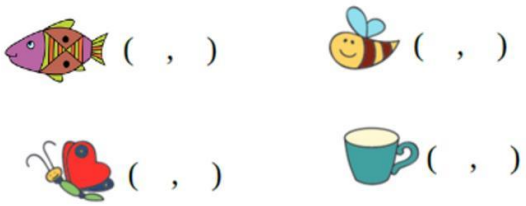
9 Find the perimeter (P) and area (A) of the rectangle ABCD:

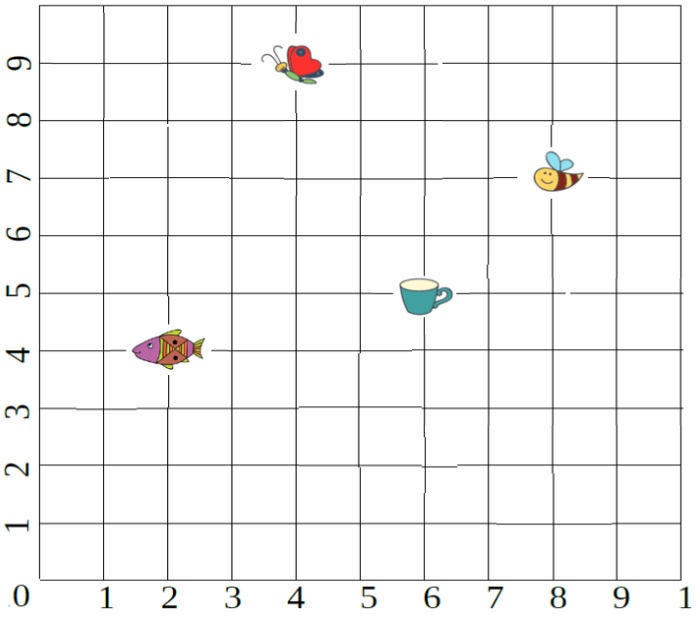


P= _____

A =_____

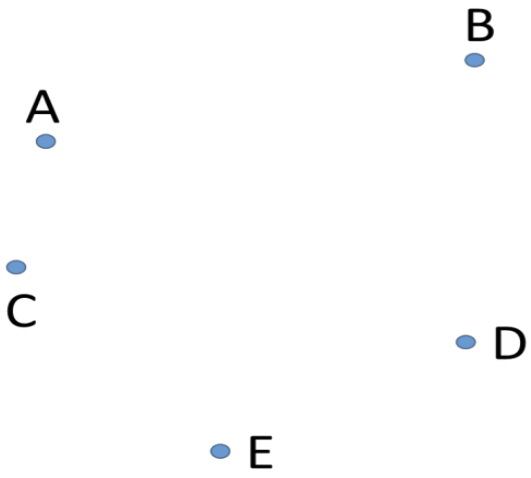
10 Find the coordinates of the objects on the plane.
Draw an apple at the position (8,2)





11 a) Use a ruler and draw:

- Draw a straight line $\overleftrightarrow{AD}$.
- Draw a line segment $\overline{CB}$.
- Label the intersection K.
- Draw a ray $\overrightarrow{KE}$



b) Make a right-angle template.

Using a template check if:

- Is angle ∠CKE obtuse? (YES, NO)
- Is angle ∠CKB acute (YES, NO)
- Is angle ∠BKD acute (YES, NO)
- Is angle ∠AKE obtuse (YES, NO)

12 Open parenthesis:

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

3(k + *b*) =_____ 5 - (k – b + a) = _____

BONUS PROBLEMS

Do them only if you have time after you finished and checked all the problems.

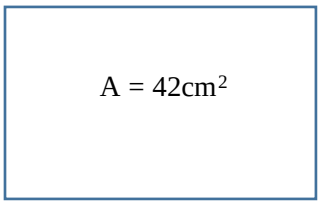
13* How can you simplify the following? Open parentheses when you need!

1) $6(3 + a) + 90 \div 10 + a =$ _____

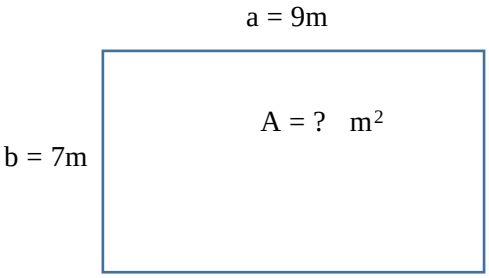
2) $4 \times 7 + 2(4 - a) =$ _____

3) $4 \times 6 - 2 \times 5 + 24 \div 8 =$ _____

14* Find area or side of the rectangle.

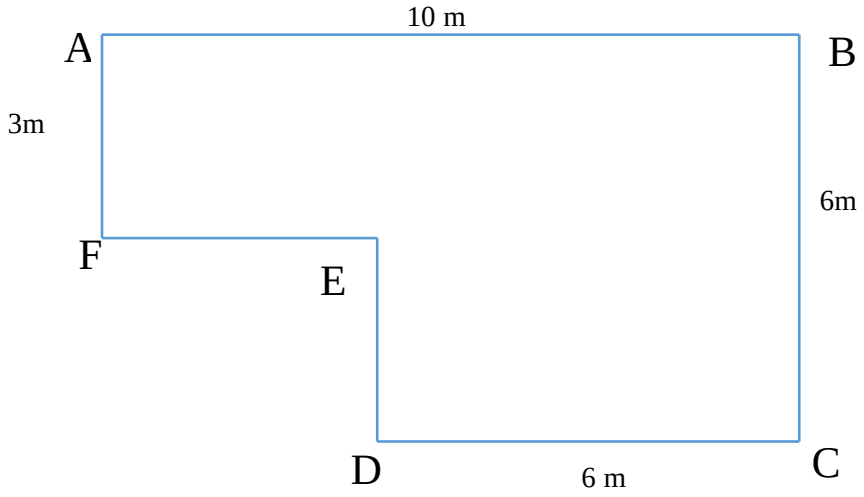


b= _____



A=_____

15* Find the perimeter and the area of the following figure, if you know some of the sides:



P= _____

A=_____