

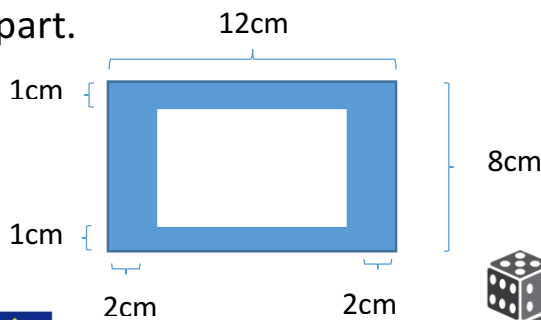
1) In a rectangle it's known that the length is twice the width and that the perimeter is 60cm.
Tell the dimensions of the rectangle.



2) The perimeter of a rectangle is 45cm. **What is the area knowing that the base is double of height?**



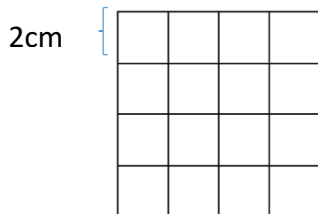
3) Calculate the area of the coloured part.



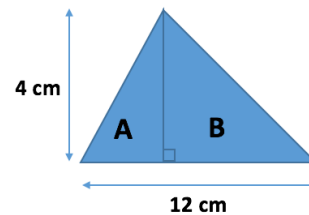
4) I'm a rectangle with perimeter 36cm. Divided in half you get 2 squares. What measures I have?



5) Calculate the area of the bigger square:



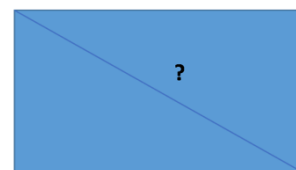
6) Calculate the area of the triangle A and B. The base of the triangle B twice the base of the triangle A.



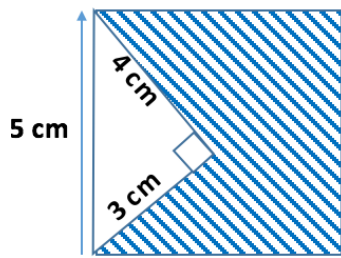
7) The perimeter of a square is 36 cm. Calculate the measure of the diagonal.



8) The area of a rectangle is 18 cm^2 and the length is twice the width. Calculate the measure of the diagonal.



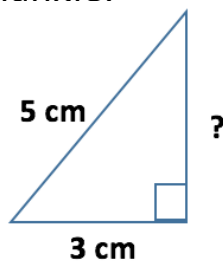
9) Calculate the area of the coloured part.



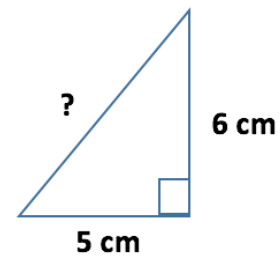
10) Say the Pythagorean theorem.



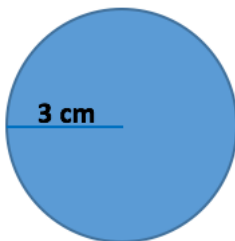
11) Calculate the height of the presented triangle.



12) Calculate the hypotenuse of the presented triangle.



13) Calculate the area of a circle whose radius is 3 cm.

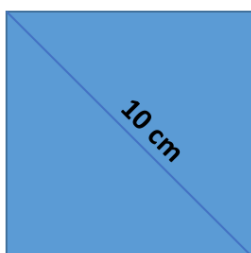


14) Tell the approximate value of:

$$2\pi$$



15) Calculate the area of the presented square.



1) What's the value of x which its square value is equal to its double?



2) In the equation $2x - 9 = 25$, the solution is:

- a) $\frac{1}{2}$
- b) 8
- c) 5
- d) 17



3) Try to get the value of x operating mentally.

$$8x = 72$$



4) Solve the following equation:

$$x: 5 = 8$$



5) Solve the following equation:

$$x^2: 4 = 4$$



6) I bought a compass and a set square by 9€. The compass costs more 6€ than the set square. How much costs the set square? And the compass?



7) John and Peter have 76 books but John has the triple of Peter's books.

How many books have each?



8) Match each equation to its solution:

- | | |
|---------------------|--------|
| a) $5 - x = 7$ | i) 0 |
| b) $2x + 3 = 3$ | ii) -2 |
| c) $x - 3 = 3x + 1$ | iii) 2 |



9) Write the equation of the problem and solve it.

The sum of a number with 5 is zero.



10) Present three consecutive numbers whose sum is twelve.



11) Which of the following expressions is an equation?

a) $3x + 1 > 7$

b) $3 \times 4 + 1 = 13$

c) $8x + 1$

d) $2 - x = 6$



12) Solve the following equation:

$$\frac{a}{3} + 5 = 2$$



13) Solve and classify the following equation:

$$2x + 3 = 4 + 2x$$



14) Try to find the solution of the following equation:

$$x + x = 2x$$



15) Are the following equations possible in \mathbb{N} ?

a) $n - 5 = 10$

b) $n + 5 = 10$

c) $3p = -18$

d) $p - 5 = -10$



1) Which property is used?

$$1 + 2 = 2 + 1$$



2) Which property is used?

$$4 \times 5 = 5 \times 4$$



3) What is the formula of Pythagorean theorem?

4) What is the formula used to calculate the area of a square?

5) What is the formula used to calculate the area of a circle?

6) Which property is used in each step?

$$2 \times (5 + 4) = (2 \times 5) + (2 \times 4) = (2 \times 4) + (2 \times 5)$$



7) Which property is used?

$$2 + (3 + 4) = (2 + 3) + 4$$

8) Which is the neutral element of multiplication?



9) Which is the neutral element of addition?

10) Which is the absorbing element of multiplication?



11) What is the formula used to calculate the area of a triangle?

12) What is the formula used to calculate the area of a circumference?



13) What is the formula used to calculate the volume of a cube?

14) What is the formula used to calculate the arithmetic average of the following data?

6, 3, 2, 4, 7, 9

15) What is the formula used to calculate the area of a cylinder?

1) How many faces has a cube?



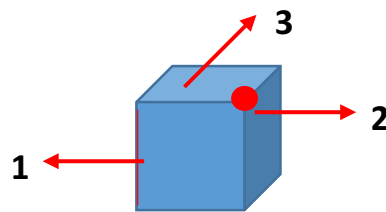
2) How many vertices has a pentagonal pyramid?



3) How many edges has a hexagonal pyramid?



4) Identify the numbers in the figure:



5) What is the name of the geometric figure you are using as pawn?



6) What is the difference between a pentagonal pyramid and a heptagonal pyramid?



7) What is the amplitude of a shallow angle?



8) When we say that a polygon is regular?



9) Which are the pyramids that have:

- a) 6 vertices
- b) 5 faces
- c) 6 edges



10) What is an axis of symmetry of a figure?



11) What characterizes an equilateral triangle?



12) Draw a triangle rectangle and:

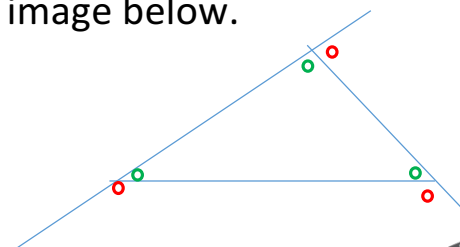
- a) Indicate the sum of the internal angles
- b) Indicate the amplitude of a right angle?



13) What is the sum of the interior angles of a quadrilateral?



14) Classify red and green angles in the image below.



15) How to classify triangles by side?



1) What is the approximate value of π ?



2) What is a prime number?



3) What is symmetrical numbers?

4) What is the positive direction of the real line?

5) Which of this numbers is largest?

a) -4

b) 0

1. Escreva uma equação aqui.



6) What is the magnitude of a number?



7) What is the absolute value of a positive number?

8) Which of this numbers is smallest?

a) -9

b) 10



9) What is the sign you get when you multiply two numbers with the same sign?

10) Present the relationship between $|10|$ and $|-10|$?



11) Which numbers that squared give 4?

12) Knowing that $1,(\overline{36})$ is an infinite repeating decimal, what is its period?



13) The number $\frac{1}{2}$ belongs to which number set?

14) What is relationship between the set \mathbb{N} and the set \mathbb{Z} ?



15) Is it true or false?

“All prime numbers are odds.”



1) What is the size of the edge line in a cube that volume is 3 cm^3 ?



2) Which number has square root 5?



3) Say the square of the first three natural pairs numbers.



4) What is the number whose cube root is 2?



5) Which of this numbers is bigger?

a) 3^2

b) 2^3



6) Which of this numbers is bigger?

a) 2^2

b) $(\sqrt{4})^2$



7) Say if it's true or false:
"The perfect square of a number is the square of an integer."



8) What is the number whose square is equal of its double?



9) Calculate:

$$\sqrt[4]{16} + \sqrt{25} - 5^2 + 2 \times 9$$



10) What is the area of a square whose side is **5 cm**?



11) What volume of a cube whose edges are **2 cm**?



12) Knowing that $2^3 = 8$, how can you calculate 4^3 ?



13) What is the square of the even prime number?



14) What is the value of the first natural number raised to 100?



15) For any base, which power which the result is always 1?



