

# Mathematics

Delprov B

Årskurs

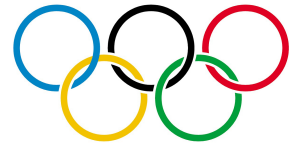
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Elevens namn och klass/grupp



1. The first modern Olympic Games took place in 1896, in Athens. (2/0/0)  
How many years ago was this?  
*Show your working.*



2. Solve the tasks and write the answers. (3/1/0)

a)  $4\,786 + 201 = \underline{\hspace{2cm}}$                           b)  $6.5 \times 10 = \underline{\hspace{2cm}}$

c)  $\frac{125}{5} = \underline{\hspace{2cm}}$     d)  $1 - \frac{1}{5} = \underline{\hspace{2cm}}$

3. The perimeter of a hexagon with sides of equal length is 42 cm. (1/0/0)  
How long is one side?

*Write the answer only:*   cm

4. Show your calculations.  
Use the grid if you want.

a)  $1261 - 957 =$

(2/0/0)

b)  $1\ 524 + 987 + 476 =$

(2/0/0)

c)  $25.3 \times 8 =$

(1/1/0)

d) Calculate the following task.  
Use the grid if you want.

$$\frac{4096}{8} =$$

(2/0/0)

5. Solve the equations.

a)  $3 \times x = 21$       Answer:  $x =$  \_\_\_\_\_ (1/0/0)

b)  $13 + 7 = 24 - x$       Answer:  $x =$  \_\_\_\_\_ (1/0/0)

c)  $25 + 5 = x + 10$       Answer:  $x =$  \_\_\_\_\_ (1/0/0)

d)  $20 = 12 + \frac{x}{2}$       Answer:  $x =$  \_\_\_\_\_ (0/1/0)

6. Five children find seashells on the shore.  
They distribute the shells evenly among themselves.  
They get 35 shells each.  
How many shells do they find in total?  
*Show your working.*



(2/0/0)

7. Which number is roughly equivalent to  $24 \times 0.6$ ?  
*Circle your answer.*

(0/1/0)

0.12      1.4      14      24.6      124

8. Maja has used a calculator to solve a problem. She got the answer 4.5.  
Which of the calculations did she do?  
*Circle your answer.*

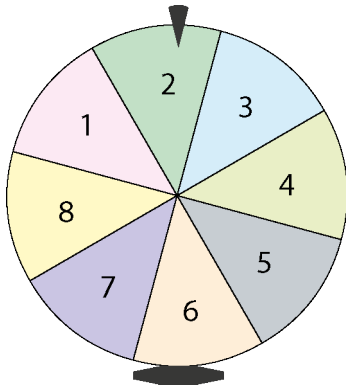
(0/1/0)

$3.8 + 1.7$        $\frac{45}{100}$        $10.0 - 6.5$        $\frac{36}{8}$        $4 \times 1.5$

9. Which two expressions give the same value when  $x = 4$ ? (0/1/0)  
*Circle your two answers.*

$x + x$        $10 - x$        $2 \times x - x$        $\frac{x}{2}$        $2 \times x$

10. Leo and Samira play a game of wheel of fortune.  
 In each round, the wheel is spun.



- a) Leo bets on number 1, number 4 and number 7 at the same time. (0/1/0)  
 What is the probability that he will win?

*Write the answer only:* \_\_\_\_\_

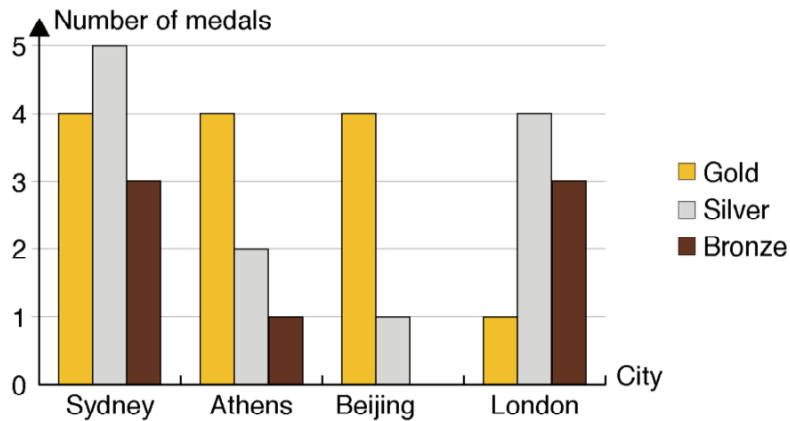
- b) How many numbers should Samira bet on in order for (0/2/0)  
 the probability of her winning to be 75 %?

*Show your working.*

11. You know that  $\frac{1\ 204}{14} = 86$ . So how much is  $\frac{1\ 204}{1.4}$ ?

*Write the answer only:* \_\_\_\_\_ (0/0/1)

12. The diagram shows how many medals Sweden has won in four different Olympic Games.



- a) How many silver medals did Sweden win in London? *Answer:* \_\_\_\_\_ (1/0/0)
- b) How many medals did Sweden win in Athens in total? *Answer:* \_\_\_\_\_ (1/0/0)
- c) What percentage of all medals won by Sweden in Sydney were bronze medals?  
*Show your working.* (0/2/0)
- d) Kevin says that the share of gold medals Sweden won in Sydney was the same as it was in Athens. Is Kevin right?  
*Explain your answer.* (0/0/2)

