Ämnesprov, läsår 2015/2016

## Mathematics

Årskurs

## Delprov B



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Prov som återanvänds av Skolverket omfattas av sekretess enligt **17 kap. 4 § offentlighets- och sekretesslagen**. Detta prov återanvänds av Skolverket t.o.m. **2019-06-30**.



 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.

a)  $4\ 786 + 201 =$  b)  $6.5 \times 10 =$ 

c) 
$$\frac{125}{5} =$$
\_\_\_\_ d)  $1 - \frac{1}{5} =$ \_\_\_\_

**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

(3/1/0)

4.	Sho Use	ow your calculations. <i>the grid if you want</i> .					
	a)	1261 – 957 =					(2/0/0)
	1	1 5 2 4 + 0 9 7 + 4 7 4 -					
	D)	1 524 + 987 + 476 -					(2/0/0)
	c)	25.3×8 =					(1/1/0)
	1\						
	d)	Use the grid if you want.					(2/0/0)
		$\frac{4096}{8} =$					

## 5. Solve the equations.

a)	$3 \times x = 21$	Answer: <i>x</i> =	(1/0/0)
b)	13 + 7 = 24 - x	Answer: <i>x</i> =	(1/0/0)
c)	25 + 5 = x + 10	Answer: <i>x</i> =	(1/0/0)
d)	$20 = 12 + \frac{x}{2}$	Answer: <i>x</i> =	(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.*

7.	Which number is roughly equivalent to $24 \times 0.6$ ? <i>Circle your answer.</i>						
	0.12	1.4	14	24.6	124		

- 8. Maja has used a calculator to solve a problem. She got the answer 4.5. (0/1/0) Which of the calculations did she do? *Circle your answer.*
  - 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×x - x  $\frac{x}{2}$  2×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? <i>Show your working.</i>	(0/2/0)

d) Kevin says that the share of gold medals Sweden won in Sydney (0/0/2) was the same as it was in Athens. Is Kevin right? *Explain your answer.*

