

## 4<sup>th</sup> GRADE - D' Demotikou

**1.** Find the answer.

 $0.9 \times (0.4 + 0.6) =$ 

A. 
$$\frac{1}{10}$$
 B. 1 C. 10000 D. 100 E. 1000

**3.** There are some pupils on a school bus. At the first bus stop 3 pupils get of the bus and 7 get in. At the second bus stop Maria and her 2 little cousins get of the bus. The remaining 12 pupils that are still on the bus leave at the third bus stop. How many were the pupils before the first bus stop?

A. 10 B. 11 C. 12 D. 13 E. 14

**4**•The digit \* in the following sum is equal to:

A 1	R 2	C 6	D 7	E 9
		$5 \ 4$	* 4	
		+ 3 *	4 *	
		1 *	2 *	

8<sup>th</sup> CYPRUS MATHEMATICAL OLYMPIAD <u>4<sup>th</sup> GRADE - D' Demotikou</u>

**5.** How many matchsticks will you need to construct the fourth shape in the row?



 $\mathbf{6}_{\bullet}$ Peter built a model of a small house. The small house had no floor and no doors.



Which of the following shows the shapes that Peter used to build the house?



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**8**•What is the missing number in the square?



A. Square with a side of 8 cm	<b>B.</b> S
C. Square with a side of 256 cm	<b>D.</b> S
E. Square with a side of 16 cm	

B. Square with a side of 2 cm D. Square with a side of 12 cm 8<sup>th</sup> CYPRUS MATHEMATICAL OLYMPIAD 4<sup>th</sup> GRADE - D' Demotikou



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**19.** Which one of the following statements is **false**?

- **A.**  $28 \div 7 > 3 \ge 1$
- **B.** 9 X 6 < 7 X 8
- **C.** 8 X 0 <  $7 \div 7$
- **D.**  $63 \div 7 > 64 \div 8$
- **E.**  $48 \div 6 < 36 \div 9$

**20.** If the figure below is folded, it becomes a cube. Which number will be on the bottom of the cube, if 5 is on the top of the cube?



**21.** In the subtraction shown, M and N each represent a single digit. What is the value of M + N?



**A.** 14 **B.** 12 **C.** 15 **D.** 13 **E.** 11

**22.** What is the value of: 268 + 1375 + 6179 - 168 - 1275 - 6079 =

**A.** 300 **B.** 0 **C.** -100 **D.** 100 **E.** -300

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23. If I from the construction below I remove the three cubes indicated with X, which one of the following will be the new construction created?



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24. The digits from 1 to 9 inclusive are to be placed in the figure shown below. Only one digit goes in every square. If the sum in each of the four lines is the same which digit should replace \*?



**25.** Which is the missing number in the shape below;



## **26.** Find the value of X.

(999+999+999+999) ÷ 999 = 9 - X A. 3 B. 4 C. 5 D. 6 E. 7 8<sup>th</sup> CYPRUS MATHEMATICAL OLYMPIAD

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<b>27.</b> $100 + 0,01 - 0,001 =$								
А	. 100,09	<b>B.</b> 100,9	<b>C.</b> 99,09	<b>D.</b> 100,009	<b>E.</b> 100			
<b>28.</b> Sixteen is called a square number, because $16 = 4 \times 4$ . How many square numbers are there between 2 and 101?								
А	.7 B.8	C. 9	<b>D.</b> 10	<b>E.</b> 11				
<b>29.</b> Aunt Anna is 42 years old. Eleni is 5 years younger than Niki, and Niki is half the age of Aunt Anna. How old is Eleni?								
	A. 15	<b>B.</b> 16	<b>C. 17</b>	D. 21	E. 37			
<ul> <li><b>30.</b> In Mesopotamia in 2500 B.C.,</li> <li>This sign was used to represent 1,</li> <li>This sign was used to represent 10 and</li> <li>This sign was used to represent 60.</li> </ul>								
Thus, 22 would be written like this:								
			4477					
How would 124 be written?								
$\begin{array}{c} \mathbf{A} \\ \mathbf{D} \end{array}$	▼ ▼ ∇ ∇ √	7 ∏ ∏ В	7 0 0 <b></b> 7 <b></b>	7	$\checkmark \forall \forall \forall \forall \forall \forall$			

