



**ADRIATIC**  
COLLEGE

**Pearson:**  
**iLowerSecondary Two**  
**Mathematics Demo**  
**Entrance Test**

**Private International School**  
Montenegro, Budva

[adriaticcollege.com](http://adriaticcollege.com)





**iLowerSecondary 2**

Candidate's name \_\_\_\_\_

- Answer all questions.
- Time allocated is 1 hour.
- The total mark for this paper is 25.
- The marks for each question are shown in brackets.
- Candidates may NOT use a calculator and may use pen, pencil, ruler and eraser.

**1.** [4] Work out these:

- a)  $4 - 1\frac{3}{5} \times \frac{3}{4} =$  \_\_\_\_\_
- b)  $-14 - (-3 + 7) \times (-2 - 8) =$  \_\_\_\_\_
- c)  $(-34.28 - (9.5 - 19.28)) : 3.5 - 2 =$  \_\_\_\_\_
- d)  $12^2 =$  \_\_\_\_\_

**2.** [2]  $N = 18$  and  $M = 24$

- a) Find the highest common factor of N and M. \_\_\_\_\_
- b) Find the lowest common multiple of N and M. \_\_\_\_\_



3. [2] Here are the heights of five posts.

1.2 m, 110 cm, 1550 mm, 0.95 m, 75 cm.

- a) Work out the mean height. \_\_\_\_\_  
b) Work out the range. \_\_\_\_\_

4. [3] A car loses 15% of its value in the first year.  
A car costs \$17 000 when new. Calculate its value at the end of the first year.

5. [3]  $v = u + at$

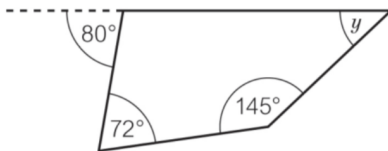
- a) Find the value of  $v$  when  $u = -10$ ,  $a = -5$  and  $t = -2$  \_\_\_\_\_  
b) Find the value of  $a$  when  $v = 25$ ,  $u = 10$  and  $t = 5$  \_\_\_\_\_



6. [2] Two bricklayers can lay 100 bricks in an hour.  
Assuming that they work at the same rate, work out how long will it take 5 bricklayers to lay 1000 bricks. \_\_\_\_\_

7. [3] Adel and Basel share £56 in the ratio 2 : 5.  
How much more money does Basel get than Adel? \_\_\_\_\_

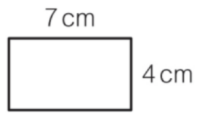
8. [2] Here is a quadrilateral.



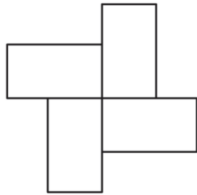
Work out the size of angle  $y$ . \_\_\_\_\_



9. [4] The diagram shows a rectangle.



Four of these rectangles are arranged to make this shape.



- a) Find the area of this figure. \_\_\_\_\_  
b) Find the perimeter of this figure. \_\_\_\_\_



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