

*Loreto Secondary School, Balbriggan, Co. Dublin.*

Student's Name: .....

National School: .....

Address of School: .....

Name of Class Teacher: .....

Name of Principal: .....

**MATHEMATICS 2010**

**TIME: 40 mins**

ANSWER ALL QUESTIONS but your best 18 will be taken into account.

- Work sums out in the **space provided** beneath each question.
- Ensure your work is neat and tidy.
- Cancel fractions to their lowest terms.
- Put your **answer in the box** beside each question.

Remember you are not allowed to use a calculator.

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1. Find the H.C.F. (Highest Common Factor) of 12, 24 and 48.

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2.  $12.4 + 3.698 + 8.65 + 2.3 =$

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3.  $11760 \div 14 =$

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4.  $9.36 \times 2.4 \times 3.7 =$

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5. Express 65% as a fraction in its simplest form.

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6. What is the value of  $6^2 - 2^2 =$

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7.  $2\frac{1}{5} + 4\frac{3}{4}$

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8.  $\frac{3}{5} + \frac{1}{4} - \frac{2}{6}$

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9.  $\frac{35}{40} \times \frac{3}{8}$

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10. In a tennis tournament, there are 240 players. If  $\frac{2}{5}$  of the players are male, how many female players are there?

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11. A school exam started at 11: 40am and finished at 1: 15pm. How long did the exam last?

Hours	Minutes
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12. A sum of money was divided in the ratio of 3:6.

If the smaller amount was €210, find the larger amount of money.

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13. Two lengths measuring 3m 60cm and 24cm were cut from a length of rope measuring 5m 20cm. What was the length of the rope left?

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14. The average of 4 numbers is 12. If the first three numbers add up to 37, what is the fourth number?

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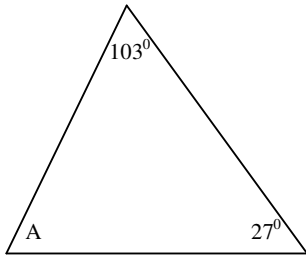
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15. Calculate the size of the angle marked A in the diagram.



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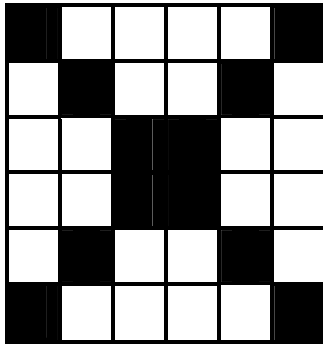
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16. Find the fraction of this shape that is shaded.



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17. The price of a car decreased by 8%. If the original price was €12400, what is the price of the car now?

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18. If a fuel bill is cut by 15% and the new charge is €76.50. How much was the bill originally?

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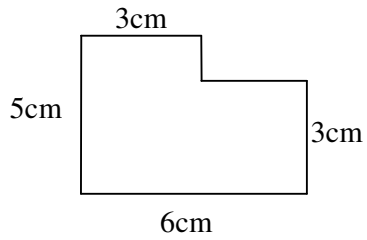
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19. Find the perimeter of this shape.



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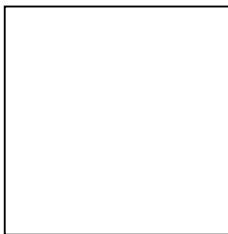
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20. The perimeter of a square is 24 cm .  
Find its area.



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