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| *School Name*  *Mathematics Test 2017* | | | |
| Year 7 | | *Perimeter* | Non Calculator  Section |
| **Skills and Knowledge Assessed:**   * Find perimeters and areas of parallelograms, trapeziums, rhombuses and kites (ACMMG196) * Investigate the relationship between features of circles such as circumference, area, radius and diameter. Use formulas to solve problems involving circumference and area (ACMMG197) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Answer all questions in the spaces provided on this test paper by:  *Writing the answer in the box provided.*  or  *Shading in the bubble for the correct answer from the four choices provided.*  Show any working out on the test paper.Calculators are **not** allowed. | | | |
|  | What is the perimeter of the triangle shown? | | |
|  | What is the perimeter of this rectangle?    55 cm  84 cm  97 cm  110 cm | | |
|  | What is the perimeter of an equilateral triangle which has sides 32 cm?  64 cm  96 cm  128 cm  192 cm | | |
|  | Find the perimeter of this rectangle. | | |
|  | What is the perimeter of the parallelogram shown?  66 m  72 m  78 m  84 m | | |
|  | What is the perimeter of this shape?  149 m  154 m  178 m  356 m | | |
|  | What is the perimeter of the kite? | | |
|  | What is the perimeter of the trapezium? | | |
|  | The circle has a radius of 16 m.  What is its circumference, in terms of ? | | |
|  | Find the perimeter of the irregular pentagon. | | |
|  | What is the perimeter of the polygon shown?  191 m  215 m  235 m  259 m | | |
|  | What is the perimeter of the shape shown?  (All angles are right angles.) | | |
|  | A sector of a circle is shown.  What is its perimeter in terms of | | |
|  | The distance *AB* is 24 cm.  The perimeter of this shape is 160 cm.  What is the distance *BC*? | | |
|  | Find the perimeter of the shape shown below in terms of | | |

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| *School Name*  *Mathematics Test 2017* | | | |
| Year 7 | | *Perimeter* | Calculator Allowed  Short Answer  Section |
|  | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Answer all questions in the spaces provided on this test paper by:  *Writing the answer in the box provided.*  or  *Shading in the bubble for the correct answer from the four choices provided.*  Show any working out on this test paper. Calculators are allowed. | | | |
|  | What is the perimeter of the equilateral triangle shown? | | |
|  | Find the perimeter of this rectangle. | | |
|  | What is the perimeter of the triangle?    22.2 m  25.8 m  36.5 m  123.0 m | | |
|  | What is the perimeter of the parallelogram shown?  46 m  62 m  88 m  92 m | | |
|  | What is the perimeter of the kite?  96 cm  192 cm  216 cm  2048 cm | | |
|  | A trapezium has the dimensions shown.  What is its perimeter? | | |
|  | What is the perimeter of the triangle? | | |
|  | Find the circumference of this circle, correct to the nearest mm.  117.8 cm  235.6 cm  353.4 cm  471.2 cm | | |
|  | What is the perimeter of the shape?  180 m  212 m  228 m  260 m | | |
|  | A window is to be made in the shape of a rhombus with the dimensions shown.  A wooden frame goes around the edge of the window and across both diagonals.  What is the total length of wood in the frame? | | |
|  | The perimeter of this shape is 275 cm.  What is the value of *y*? | | |
|  | The three shapes below are each made using four 1 cm equilateral triangles.  Which statement below is true?  Shape 1 Shape 2 Shape 3  All three shapes have the same perimeter.  Only shapes 1 and 2 have the same perimeter.  Only shapes 1 and 3 have the same perimeter.  Only shapes 2 and 3 have the same perimeter. | | |
|  | Will enters the maze shown at the point *A* and aims to reach point *B*, but instead he takes a wrong turn at *C* and finds himself back at *A*.  How many extra metres has he walked, than if he left the maze at *B*? | | |
|  | A circle with a radius of r metres has a circumference of 104 metres.  What is the value of *r,* to the nearest cm? | | |
|  | The logo for company shown is created by drawing semicircles around a square (shown with broken lines).  What is the perimeter of the logo? | | |

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| *School Name*  *Mathematics Test 2017* | | |
| Year 7 | *Perimeter* | Non Calculator Section |

ANSWERS

| Question | Working and Answer |
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|  | **4th Answer** |
|  | **2nd Answer** |
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|  | **4th Answer** |
|  | **3rd Answer** |
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|  |  |
|  | **2nd Answer** |
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|  | **1st Answer** |
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|  | **3rd Answer** |

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| *School Name*  *Mathematics Test 2017* | | |
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ANSWERS

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| --- | --- |
| Question | Working and Answer |
|  |  |
|  |  |
|  | **3rd Answer** |
|  | **4th Answer** |
|  | **2nd Answer** |
|  |  |
|  |  |
|  | **2nd Answer** |
|  | **1st Answer** |
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|  | Shape 1 has a perimeter of 6 cm  Shape 2 has a perimeter of 6 cm  Shape 3 has a perimeter of 6 cm  All three shapes have the same perimeter.  **1st Answer** |
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