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| 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?    41 cm  47 cm  63 cm  352 cm | | |
|  | What is the perimeter of this rectangle? | | |
|  | What is the perimeter of a square which has sides 15 cm? | | |
|  | Find the perimeter of this triangle.  40 cm  41 cm  42 cm  54 cm | | |
|  | What is the perimeter of the parallelogram shown?  42 m  60 m  72 m  84 m | | |
|  | What is the perimeter of this shape?  68 m  80 m  88 m  100 m | | |
|  | What is the perimeter of the trapezium? | | |
|  | What is the perimeter of the kite? | | |
|  | The circle has a diameter of 30 m.  What is its circumference? | | |
|  | Find the perimeter of the irregular pentagon.  550 m  640 m  760 m  850 m | | |
|  | What is the perimeter of the polygon shown?  147 m  159 m  161 m  165 m | | |
|  | A pool yard has the dimensions shown.  The field is fenced with metal fencing that costs $50 per metre.  What is the cost of fencing the yard? | | |
|  | A quadrant of a circle is shown.  What is its perimeter in terms of | | |
|  | The distance *BC* is 12 cm.  The perimeter of this shape is 132 cm.  What is the distance AB? | | |
|  | Find the perimeter of the shape shown below in terms of | | |

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| 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 square shown? | | |
|  | Find the perimeter of this rectangle. | | |
|  | What is the perimeter of the triangle?    784 cm  882 cm  1 568 cm  16 464 cm | | |
|  | What is the perimeter of the parallelogram shown?  6.0 m  6.9 m  10.8 m  12.0 m | | |
|  | What is the perimeter of the rhombus?  78 cm  102 cm  156 cm  258 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 cm.  141 cm  283 cm  565 cm  1 131 cm | | |
|  | What is the perimeter of the quadrilateral?  75 m  100 m  115 m  130 m | | |
|  | A window is to be made in the shape of a kite with the dimensions shown.  A wooden frame goes around the edge of the window.  What is the total length of wood in the frame? | | |
|  | The perimeter of this shape is 330 cm.  What is the value of *x*?  44 cm  88 cm  70 cm  91.5 cm | | |
|  | The three shapes below are each made using four 1 cm square tiles.  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. | | |
|  | A circular sports ground has a diameter 150 m.  Toby runs laps of the ground for training.  Toby wants to run at least 5 kilometres.  What is the least number of laps of the ground must he complete? | | |
|  | A regular polygon shown has a perimeter of 150 cm.  How long is each side? | | |
|  | The perimeter of the shape is 143 m.  What is the value of *y*? | | |

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| Year 7 | | *Perimeter* | Non Calculator  Section |
| ANSWERS | | | |
| No. | WORKING | | ANSWER |
|  |  | | 3rd answer |
|  |  | | 80 m |
|  |  | | 60 cm |
|  |  | | 3rd answer |
|  |  | | 2nd answer |
|  |  | | 4th answer |
|  |  | | 104 m |
|  |  | | 94 cm |
|  |  | | 2nd answer |
|  |  | | 4th answer |
|  |  | | 1st answer |
|  |  | | $3 000 |
|  |  | |  |
|  |  | | 9 cm |
|  |  | | 1st answer |

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| Year 7 | | *Perimeter* | Calculator Allowed  Short Answer  Section | |
| ANSWERS | | | | |
| No. | WORKING | | | ANSWER |
|  |  | | | 10.8 cm |
|  |  | | | 10.2 m |
|  |  | | | 1st answer |
|  |  | | | 4th answer |
|  |  | | | 3rd answer |
|  |  | | | 92 cm |
|  |  | | | 15.6 cm |
|  |  | | | 3rd answer |
|  |  | | | 2nd answer |
|  |  | | | 314 cm |
|  |  | | | 1st answer |
|  | Shape 1 has a perimeter of 10 cm  Shape 2 has a perimeter of 10 cm  Shape 3 has a perimeter of 8 cm  Only shapes 1 and 2 have the same perimeter. | | | 2nd answer |
|  |  | | | 11 laps |
|  |  | | | 12.5 cm |
|  |  | | | 15.5 m |