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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 square shown?    Perimeter = cm. | | |
|  | Find the perimeter of this rectangle.  39 cm  54 cm  63 cm  78 cm | | |
|  | What is the perimeter of the triangle?    Perimeter = cm. | | |
|  | What is the perimeter of the parallelogram shown?    Perimeter = cm. | | |
|  | What is the perimeter or the rhombus?  40 cm  56 cm  96 cm  112 cm | | |
|  | A trapezium has the dimensions shown.  What is its perimeter?  43 cm  52 cm  126 cm  252 cm | | |
|  | What is the perimeter of the triangle?    Perimeter = cm. | | |
|  | Find the perimeter of this circle in terms of  cm  cm  cm  cm | | |
|  | What is the perimeter of the quadrilateral?  55 m  62 m  88 m  192 m | | |
|  | Aaron builds a kite with the dimensions shown. He applies tape around the edge to strengthen it.  What length of tape is needed?    Length of tape = cm. | | |
|  | The perimeter of this shape is 120 cm.  What is the value of *x*?  *x* = cm | | |
|  | The three shapes below are each made using five 1 cm square tiles.  Which statement below is true?  Shape 1 Shape 2 Shape 3    All three shapes have the same perimeter.  Shape 1 and Shape 2 have the same perimeter.  Shape 1 and Shape 3 have the same perimeter.  Shape 2 and Shape 3 have the same perimeter. | | |
|  | A circular cricket ground has a diameter 120 m.    Elise runs 4 laps of the ground to warm up before a game.  How far does she run (in terms of π)?    60π m 120π m  240π m 480π m | | |
|  | A regular polygon shown has a perimeter of 112 m.  How long is each side?  m | | |
|  | What is the perimeter of the shape shown?  (Nearest metre)  Perimeter = m | | |

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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 the test paper. Calculators are allowed.* | | | |
|  | A square field has a perimeter of 2 304 m.  What is the length of the sides of the field?  48 m  96 m  288 m  576 m | | |
|  | What is the perimeter of this rectangle?  Perimeter = m. | | |
|  | Find the perimeter of this triangle.  45 cm  60 cm  72 cm  150 cm | | |
|  | What is the perimeter of this shape?  32 m  38 m  64 m  188 m | | |
|  | What is the perimeter of the parallelogram shown?  30 m  41 m  60 m  198 m | | |
|  | What is the perimeter of the trapezium?    Perimeter = cm. cm. | | |
|  | What is the perimeter of the kite ABCD?    Perimeter = cm. | | |
|  | The circular lawn has a diameter of 18 m.  What is its circumference?  56.5 m  177.7 m  201.1 m  254.5 m | | |
|  | A circle has a circumference of 18 m.  What is its radius, correct to the nearest millimetre?    Radius = cm | | |
|  | Find the perimeter of the shaded plot of land.    Perimeter = m | | |
|  | What is the perimeter of the irregular polygon shown?    173 m 179 m  187 m 194 m | | |
|  | A sign is made in the shape of an arrow as shown.  What is the perimeter of the sign?  690 cm 780 cm  810 cm 900 cm | | |
|  | A sector of a circle is shown. What is its perimeter, correct to one decimal place?      Perimeter = cm. | | |
|  | A trotting track has the dimensions shown. The width of the track is 12 m. How much further is travelled in making one lap of the track on the outside rail compared to the inside rail? Answer to the nearest m.  Extra distance = m. | | |
|  | Find the perimeter of the shape shown below. (Nearest metre)  Perimeter = m. | | |

Perimeter

ANSWERS

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| Non Calculator Section ( 1 mark each) |

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|  | What is the perimeter of the square shown?      96  Perimeter = cm. |
|  | Find the perimeter of this rectangle.  39 cm  54 cm  63 cm  78 cm |
|  | What is the perimeter of the triangle?      72  Perimeter = cm. |
|  | What is the perimeter of the parallelogram shown?      56  Perimeter = cm. |
|  | What is the perimeter or the rhombus?  40 cm  56 cm  96 cm  112 cm |
|  | A trapezium has the dimensions shown.  What is its perimeter?  43 cm  52 cm  126 cm  252 cm |
|  | What is the perimeter of the triangle?      111  Perimeter = cm. |
|  | Find the perimeter of this circle in terms of  cm  cm  cm  cm |
|  | What is the perimeter of the quadrilateral?  55 m  62 m  88 m  192 m |
|  | Aaron builds a kite with the dimensions shown. He applies tape around the edge to strengthen it.  What length of tape is needed?      230  Length of tape = cm. |
|  | The perimeter of this shape is 120 m.  What is the value of *x*?    *x* = 21 cm |
|  | The three shapes below are each made using five 1 cm square tiles.  Which statement below is true?  Shape 1 Shape 2 Shape 3    All three shapes have the same perimeter.  Shape 1 and Shape 2 have the same perimeter.  Shape 1 and Shape 3 have the same perimeter.  Shape 2 and Shape 3 have the same perimeter. |
|  | A circular cricket ground has a diameter 120 m.    Elise runs 4 laps of the ground to warm up before a game.  How far does she run (in terms of π)?    60π m 120π m  240π m 480π m |
|  | A regular polygon shown has a perimeter of 112 m.  How long is each side?    16  m |
|  | What is the perimeter of the shape shown?      Perimeter = 318 m |

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| Calculator Allowed Short Answer Section ( 1 mark each) |

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|  | A square field has a perimeter of 2 304 m.  What is the length of the sides of the field?  48 m  96 m  288 m  576 m |
|  | What is the perimeter of this rectangle?    46  Perimeter = m. |
|  | Find the perimeter of this triangle.  45 cm  60 cm  72 cm  150 cm |
|  | What is the perimeter of this shape?  32 m  38 m  64 m  188 m |
|  | What is the perimeter of the parallelogram shown?  30 m  41 m  60 m  198 m |
|  | What is the perimeter of the trapezium?      64  Perimeter = cm. cm. |
|  | What is the perimeter of the kite ABCD?      94  Perimeter = cm. |
|  | The circular lawn has a diameter of 18 m.  What is its circumference?  56.5 m  177.7 m  201.1 m  254.5 m |
|  | A circle has a circumference of 18 m.  What is its radius, correct to the nearest millimetre?      2.9  Radius = cm |
|  | Find the perimeter of the shaded plot of land.      865  Perimeter = m |
|  | What is the perimeter of the irregular polygon shown?    173 m 179 m  187 m 194 m |
|  | A sign is made in the shape of an arrow as shown.  What is the perimeter of the sign?    690 cm 780 cm  810 cm 900 cm |
|  | A sector of a circle is shown. What is its perimeter, correct to one decimal place?      69.6  Perimeter = cm. |
|  | A trotting track has the dimensions shown. The width of the track is 12 m. How much further is travelled in making one lap of the track on the outside rail compared to the inside rail? Answer to the nearest m.    751  Extra distance = m. |
|  | Find the perimeter of the shape shown below.    115  Perimeter = m. |