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| Year  7 | | *Grids and Location* | Non Calculator  Section |
| **Skills and Knowledge Assessed:**   * Use a grid reference system to describe locations. Describe routes using landmarks and   directional language (ACMMG113) | | | 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. *A ruler and protractor are needed.*** | | | |
|  | A ship is sailing in a south-west direction. Another ship is sailing in the opposite direction. What direction is the second ship sailing? | | |
|  | The scale on a map is 6 cm : 100 km. Jack knows that two town are 450km apart. How far apart would they be on the map?    cm | | |
|  | The car is travelling south-east along Denby Rd and is about to turn left into Smith St.  What direction will it be travelling after it has turned left?  north-east  Smith St.  north-west  south-east  Denby Rd  south-west | | |
|  | On a map, the distance from Leith to Jonas is 12 cm. The real distance between the towns is 720 km. What is the scale on the map?  1 cm : 60 km 1 cm : 600 km 1 cm : 1 000 km 1 cm : 10 000 km | | |
|  | Questions 5 – 10 refer to the map of the Indian subcontinent shown below.  0 400 800 1200 1600  Scale km | | |
|  | What is the grid reference of Hyderabad?  D5 E4 E5 E6 | | |
|  | What city is located at grid reference F3? | | |
|  | What city is south west of Kathmandu and South of Islamabad?  Bangalore Dhaka Hyderabad Mumbai | | |
|  | What is the distance from Kabul to Kolkata, correct to the nearest 200 km?  km | | |
|  | What city is about 1 000 km NW of Delhi?  Kabul Karachi Kathmandu Kolkata | | |
|  | Lhasa is NE of Hyderabad and around 800 km form Dhaka. What would be its grid reference? | | |
|  | Questions 11 – 15 refer to the map of Auto Island Shown below. | | |
|  | How far in a straight line is it from Hummer to Falcon Bay?  3.5 km 20 km 25 km 35 km | | |
|  | What town is south-west of Jeap and 35 km from Isuzu Point? | | |
|  | How far apart are the two towns which have grid refences Cw and Bx? (Answer to the nearest 5 km.)  km | | |
|  | What would be the shortest route to get from Beema to Dodge?  Directly through Audi Town.  Directly through Caddy.  Through Audi Town then Kea.  Through Goggo then Caddy. | | |
|  | The ship the SS Lincoln is at sea, due south of Goggo and South-west of Falcon Bay. What would be its grid reference? | | |

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| Year  7 | | *Grids and Location* | 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.** | | | |
|  | Michelle was driving south-west, when she made three left hand 90o turns. What direction was she travelling then? | | |
|  | Questions 2 – 4 refer to the grid shown. | | |
|  | Which point is located at (3, 2)?  A B C D | | |
|  | What are the coordinates of point E ? | | |
|  | B and E are the first two corners of a square. Which coordinates could describe the other two corners ?  ` (3, 4) and (6, 4) (4, 3) and (7, 3)  (4, 4) and (7, 4) (4, 3) and (4, 7) | | |
|  | Questions 5 – 10 refer to the map of Beechworth city centre.  Scale 1 cm : 50 m.  The homes of five friends, Keith, Luke, Meg, Natalie and Owen are shown on this map by the letters K, L, M, N and O. Some other landmarks in the town are also shown. | | |
|  | Which street runs at right angles to Open Cl?  ` Burrow Rd. Christian St.  Fernando Pl. Tobin Td. | | |
|  | Meg is travelling west on Dawson Rd and turns right into Riverside Rd. What direction is she travelling now? | | |
|  | What is the distance (in a straight line) and the direction of Keith’s house from Meg’s house?  Distance is metres in a direction. | | |
|  | How far must Keith walk to get to his nearest (in distance) friend’s house?  metres | | |
|  | Natalia walks from her house along Burrow Rd to Owens House. What town landmark does she pass on her left?  ` The Courthouse The Grand Hotel  St Pauls Church St Peters Church | | |
|  | Meg leaves her house and walks north-west on Ewens Rd then turns a sharp right at the first intersection. She walks 400 m along this street before turning left at an intersection and walking a further 250 metres along this street. What landmark would be nearest on her left? | | |
|  | The positions of 5 markers *U, V, W, X, Y* and *Z* are shown on the grid for a game.  The rules say it is only possible to move vertically and horizontally on the grid.  When playing the game, Jacquie records her moves. When moving from *W* to *Z* she records 3W, 4N. | | |
|  | Which of these moves would get Jacquie back from *Z* to *W* ?  3E, 4N 3E, 4S.  3W, 4S 3W, 4N | | |
|  | Krystal starts at *U* and travels 8W,2S. Where would she place her marker when she finishes the move?  *V W X Y* | | |
|  | Which of these three part moves would get from from *W* to *Y* ?  4E,2S, 4E. 4E,2N, 4E.  4S,2E, 4N. 4W,2S, 4W. | | |
|  | Tayla starts at *X* and travels 8E,10N,5W,3S. Where would she finish her move?  *U V W Y* | | |
|  | Tran wants to go from *V* to *Y* in a move with five legs.  The first three legs are given below. Complete the last two legs.  7E, 4S, 5W, , | | |

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| ar  7 | *Grids and Location* |

ANSWERS

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| Non Calculator Section |

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|  | north-east |
|  | 26 cm |
|  | north-east |
|  | 1 cm : 60 km |
|  | E5 |
|  | Kathmandu |
|  | Mumbai |
|  | 2 200 km (nearest 200 km) |
|  | Kabul |
|  | G2 |
|  | 35 km |
|  | Falcon Bay |
|  | 25km (using centres of dots) |
|  | Directly through Audi Town. |
|  | Bz |

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| Calculator Allowed Section |

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|  | North-west |
|  | *D* |
|  | (7, 7) |
|  | (4, 4) and (7, 4) |
|  | Christian St |
|  | North-east |
|  | Around 550 m in a north-east direction |
|  | Around 400 m |
|  | St Peters Church |
|  | Police Station |
|  | 3E, 4S. |
|  | *X* |
|  | 4E,2S, 4E |
|  | *W* |
|  | 1S, 3E |