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| Year 7 | | *Integers* | Non Calculator  Test |
| **Skills and Knowledge Assessed:**   * Investigate everyday situations that use integers. Locate and represent these   numbers on a number line (ACMNA124)   * Compare, order, add and subtract integers (ACMNA280) * Carry out the four operations with (rational numbers and)  integers, using efficient mental and written strategies and appropriate digital technologies (ACMNA183) | | | 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. | | | |
|  | **Questions 1 – 5 refer to the following.**  A football coach labels the football field as shown, with distances (in metres) in the opposition half as positive and those into their own half as negative. | | |
|  | A player kicks a ball from *A* (-30) to *B* (+20).  How many metres did the ball travel? | | |
|  | A player starts from *C* (-45) and kicks the ball 80 m to the right.  What is the position of the ball now? | | |
|  | Which of these describes a kick which would move the ball from to *D* (+35) to *E*(+10)?  25 m to the left 25 m to the right  50 m to the left 50 m to the right | | |
|  | Which of these describes a kick which would move the ball from to *F* (+45) to *G*(-15)?  30 m to the left 30 m to the right  60 m to the left 60 m to the right | | |
|  | A player starts from *-*10 and kicks the ball 30 m to the left, then another player kicks it 50 m to the right.  What is the position of the ball now? | | |
|  | Questions 6 – 10 refer to the following:  The statement below was provided by Westanz Bank for Ronnie’s Account.     |  |  |  | | --- | --- | --- | | Date | Transaction | Balance | | 3 / 6 / 2016 | Opening Balance | $15 | | 9 / 6 / 2016 | Withdrawal of $40 |  | | 12 / 6 / 2016 | Withdrawal of $105 |  | | 15 / 6 / 2016 | Deposit of $70 |  | | 21 / 6 / 2016 | Deposit of $90 |  | | 25 / 6 / 2016 | Withdrawal of $100 |  | | 30 / 6 / 2016 |  |  | | | |
|  | What is the balance on 21 / 6 / 2016? | | |
|  | What is the balance on 25 / 6 / 2016? | | |
|  | On the 30 / 5 / 2016 Ronnie makes a transaction that brings the balance to  What was the transaction?  Deposit of  Deposit of  Withdrawal of  Withdrawal of | | |
|  | Later in the year her account statement showed the following.   |  |  |  | | --- | --- | --- | | Date | Transaction | Balance | | 1 / 7 / 2016 | Opening balance |  | | 2 / 7 / 2016 | Deposit of $120 |  | | 5 / 7 / 2016 |  |  | | | |
|  | What was the opening balance? | | |
|  | What transaction did she make on 5 / 7 / 2016? | | |
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|  |  | | |
|  | –24 –6 6 24 | | |
|  | –13 –1 1 13 | | |
|  |  | | |
|  |  | | |
|  | –2 2 4 8 | | |
|  | –18 –2 2 18 | | |
|  | In North America, Death Valley has an elevation of  relative to sea level, and McKinley has an elevation of  relative to sea level. What is the difference in their elevations? | | |
|  | When playing *War Heroes*, Marcus resumes the game with a score of 20 000, then he loses 15 000 points, before gaining another 5 000 points and then losing another 15 000 points, at which point he pauses the game. How many points does he have when he pauses? | | |
|  | The numbers  are marked on the number line below. What is the third number (labelled *Q*) which is marked on the number line? | | |
|  | Mark the numbers  on the number line below. | | |
|  | What number is halfway between on the number line?    – 5 – 3 – 2 – 1 | | |
|  | Re-write the numbers in ascending order. | | |
|  | Which statement is correct? | | |
|  | Write the next two numbers in the number pattern. | | |
|  | – 40 – 13 –13 40 | | |
|  |  | | |
|  |  | | |
|  | – 64 – 32 64 128 | | |
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|  | Lynda started with in her bank account at the start of May.  During May she had four deposits of her pay of $ 250 and she made six withdrawals of $120 each.  What was the balance of the account at the end of May? | | |

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| Year 7 | | *Integers* | Non Calculator  Section |
| ANSWERS | | | |
| No. | WORKING | | ANSWER |
|  | From – 30 to + 20 = 30 + 20 = 50 metres | | 3rd answer |
|  |  | | 4th answer |
|  | From to D (+35) to E(+10) is to the left and a distance of 35 – 10 = 25. | | 1st answer |
|  | From to F (+45) to G(-15) is to the left and a distance of 45 + 15 = 60. | | 3rd answer |
|  |  | | 2nd answer |
|  |  | | 4th answer |
|  | 30 – 100 = -70 | |  |
|  | From -70 to a balance of 50 is increase of $120 | | 1st answer |
|  | OB + 120 = 40  OB = 40 – 120 = -80 | |  |
|  | From 40 to a balance of –130 is decrease of $170 | | Withdrawal of $170 |
|  |  | |  |
|  |  | | 3rd answer |
|  |  | | –25 |
|  |  | | –5 |
|  |  | | 2nd answer |
|  |  | | 4th answer |
|  |  | | 7 |
|  |  | | -15 |
|  |  | | 1st answer |
|  |  | | 2nd answer |
|  | From –85 to +6090 is 85 + 6090 = 6 175 | | 6 175 metres |
|  |  | | - 5 000 points |
|  |  | | Q is –4 |
|  |  | | |
|  |  | | 1st answer |
|  |  | |  |
|  | as -12 is to the right of -15. | | 2nd answer |
|  | The pattern is decreasing by 6 each time. | |  |
|  |  | | 4th answer |
|  |  | | -63 |
|  |  | | -60 |
|  |  | | 3rd answer |
|  |  | | 100 |
|  |  | | 9 |
|  |  | | -9 |
|  |  | | -8 |
|  |  | | 30 |
|  |  | | -20 |
|  |  | | 72 |
|  |  | | -108 |
|  |  | | -6 |
|  |  | | -$40 |