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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 – 4 refer to the following.**  A ship has a winch which reaches 10 m above water level and can be used to lower a diving bell below water level. Distances above and below the water are given as positive and negative numbers respectively. | | |
|  | If the bell starts at the position shown and is raised 9 m, what is its new position? | | |
|  | Which of these describes how the bell would move when going from the position shown until it was level with the deck of the ship? | | |
|  | Which of these describes how the bell would move when going from the top of the winch until it was 6 metres below the water? | | |
|  | When the bell moves 9 metres downward it finishes at -4. From what position did it begin this move? | | |
|  | Questions 5 – 8 refer to the following:  The statement below was provided by Sam’s bank for May.     |  |  |  | | --- | --- | --- | | Date | Transaction | Balance | | 1 / 5 / 2014 | Opening Balance | $120 | | 4 / 5 / 2014 | Withdrawal of $40 | $80 | | 10 / 5 / 2014 | Withdrawal of $110 |  | | 15 / 5 / 2014 | Withdrawal of $70 |  | | 20 / 5 / 2014 | Deposit of $80 |  | | 24 / 5 / 2014 | Withdrawal of $100 |  | | 26 / 5 / 2014 | Deposit of $30 |  | | 28 / 5 / 2014 |  |  | | | |
|  | What is the balance on 20 / 5 / 2014? | | |
|  | What is the balance on 26 / 5 / 2014? | | |
|  | On the 28 / 5 / 2014 Sam 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 / 6 / 2014 | Opening balance |  | | 2 / 6 / 2014 | Deposit of $110 |  |   What was the opening balance? | | |
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|  | Lake Eyre in South Australia has an elevation of  relative to sea level, and [Mount Kosciuszko](http://en.wikipedia.org/wiki/Mount_Kosciuszko) has an elevation of  relative to sea level. What is the difference in their elevations?  metres | | |
|  | In a game Callum wins 80 points, then loses 160 points, before winning 100 points and then losing another 180 points before the game ends. How many points does he have at the end? | | |
|  | The numbers  are marked on the number line below. What is the third number (labelled *P*) which is marked on the number line? | | |
|  | Mark the numbers  on the number line below. | | |
|  | What number is halfway between on the number line? | | |
|  | Re-write the numbers in ascending order. | | |
|  | Which statement is correct? | | |
|  | Write the next two numbers in the number pattern. | | |
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|  | Kensie started with in her bank account. She made six deposits of $30 each.  What was the balance of the account after these deposit? | | |

Integers

ANSWERS

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| Non Calculator Test ( 1 mark each) |

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| Q no |  |
|  | (3rd Answer) |
|  | 8 metres up to sea and 3 more to deck = 11 metres up. (4th Answer) |
|  | 10 metres down to sea and 6 more to -6 = 16 metres down. (1st Answer) |
|  | 9 metres above -4 is +5 (3rd Answer) |
|  | (3rd Answer) |
|  |  |
|  | (2nd Answer) |
|  |  |
|  |  |
|  | ( 1st Answer) |
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|  | (2nd Answer) |
|  | (4th Answer) |
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|  | (4th Answer) |
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|  | Three units to right of -8, so P = -5. |
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|  | -25, -21, -16, 3, 9 |
|  | (2nd Answer) |
|  | -23, -27 |
|  | (4th Answer) |
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|  | (4th Answer) |
|  | (4th Answer) |
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|  | (3rd Answer) |
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|  | (1st Answer) |
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