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| Year | Mathematics Practice Test –  Integers | |  |
|  | Name | |  |
| Questions 1 to 5 refer to the thermometer below which shows the temperatures at four times on the same day, starting at 6 am. | | | |
| 1. | | What is the 6 am temperature shown on the thermometer?  oC | |
| 2. | | What is the maximum temperature that can be recorded on the thermometer?  31o C 32o C 34o C 35o C | |
| 3. | | By how many degrees did the temperature fall between midday and 10 pm?  24o C 26o C 34o C 18o C | |
| 4. | | By how many degrees did the temperature rise between 6 am and 10 am?  9o C 10o C 16o C 18o C | |
| 5. | | The temperature was 28oC at 2pm and fell by 5 degrees per hour till 9pm.  The temperature at 9 pm was oC. | |
|  | | Questions 6 – 8 refer to the information below about the card game called Five Hundred.  In the card game Five Hundred, players start with 0 points and gain points when they win hands and lose points when they lose hands. A player wins when their total score gets above 500 points or loses when it falls below –500 points. | |
| 6. | | Michael is on a score of 200 points and loses a hand worth 140 points. What is his new score? | |
| 7. | | Susan is on –260 points and wins a hand worth 400 points. What is her new score? | |
| 8. | | Jenny is on – 280 points. What score on the next hand would see her lose the game? | |
| 9. | | -4 4 20 -20 | |
| 10. | |  | |
| 11. | |  | |
| 12. | |  | |
| 13. | |  | |
| 14. | |  | |
| 15. | |  | |
| 16. | |  | |
| 17. | |  | |
| 18. | |  | |
| 19. | |  | |
| 20. | |  | |
| 21. | | The numbers  are marked on the number line below. What is the third number (labelled D) which is marked on the number line? | |
| 22. | | Mark the answer to  on the number line below. | |
| 23. | | What number is halfway between  on the number line? | |
| 24. | | Re-write the numbers in descending order. | |
| 25. | | Use one of the symbols > or < in each of the statements below to make both statements true. | |
| 26. | | Write the next two numbers in the number pattern. | |
| 27. | | The minimum temperatures on four consecutive days were  What was the average minimum temperature for the 4 days? | |
| 28. | | Five friends have bank accounts. Some of the friends have an overdraft which means they owe the bank money and these appear as a negative balance. Their balances are shown in the table below.  What is the difference (in dollar terms) between the highest and lowest balances?  $ | |
| 29. | | Two numbers which have a sum of –5 and a product of – 24 are:  8 and –3 3 and –8 4 and –6 3 and 8 | |
| 30. | | A submarine which is 240 metres below the surface of the ocean fires a missile directly upward. The missile climbs 660 metres from the submarine before hitting a Test target. How far above the ocean surface was the target?  metres | |