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| Year  9 | | Mathematics Test  Simple Interest and Consumer Maths | | Calculator Allowed |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this test paper. | | | |
| 1. | Joanne buys a dress marked at $260.00 at a sale where a 45% discount is offered off the marked price of all items. How much did she pay for the dress?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Joseph buys a pair of jeans at a store during a discount sale. The jeans normally sold for $125.00, but he paid only $81.25 for them. What percentage discount did he receive?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | Which of the following offers at the Milltown butchers gives the best value per kilogram?  5 kg bulk pack of sausages for $42.50.  2 kg pack of sausages on special for $16.40  Loose sausages at $9.00 per kg.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | Katie goes to the hardware to buy timber flooring. There are two packs available.  Brand A normally priced at $25.00 per m2, offered at a 20% discount.  Brand B normally priced at $28.00 per m2, offered as buy 3 m2 get 1 free.  Katie needs 8m2 of flooring. Which brand should she choose and how much can she save by choosing the better offer?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 5. | Angela borrows $ 2000 at 6% pa simple interest for 3 years. How much does she pay in interest?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | John loans $12 000 at 5.5% pa simple interest for 4 years. How much interest should he be paid?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | Brad borrows $8 500 at 4% pa simple interest for 2 years. How much does he have to pay back in total?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | Stacey borrowed $4 000 at simple interest over 4 years and had to pay $1 120 in interest. What interest rate was she charged?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 9. | Stuart borrows $15 000 at 6% pa simple interest and is charged $5 400 in interest. How many years was the loan taken over?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | Belinda takes a loan of $2 400 at 6% pa simple interest for 3 months. How much does she pay in interest?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | | Mathematics Test  Simple Interest and Consumer Maths | | Calculator Allowed |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Mark all your answers on the accompanying multiple choice answer sheet, not on this test paper. You may do any working out on this test paper. Calculators are allowed for this section. | | | |
| 1. | Karen buys a Blue Ray player at the sale shown.  SALE  **20% OFF**  **EVERYTHING**  She paid $280 for the player.  What was its normal price before the sale?  A. $300 B. $336  C. $350 D. $1 400 | | | |
| 2. | An electrical store makes a 90% profit on the cost price of every item it sells. If the store buys a DVD recorder from the manufacturer for $145, what is their selling price?  A. $161.10 B. $130.50 C. $275.50 D. $306.11 | | | |
| 3. | During a price war unleaded petrol was discounted from $1.60 per litre to $1.36 per litre. What percentage discount is this?  A. 1.5% B. 15% C. 17.6% D 24% | | | |
| 4. | Sandra borrows $7 800 and pays simple interest on the principal for 3 years at 12% p.a. How much interest does she pay?  A. $936 B. $1 950 C. $2 340 D. $2 808 | | | |
| 5. | Damien invested $16 000 at 9% pa simple interest for a period of time and earned $8640 in interest. For how long was the money invested?  A. 3 years B. 4 years C. 5 years D. 6 years | | | |
| 6. | Lisa wants to earn $1 000 in interest in 5 years. The best simple interest rate that she can find is 16% p.a. How much would she need to invest to achieve her aim of $1 000 in interest?  A. $1 250 B. $1 500 C. $1 750 D. $2 000 | | | |
| 7. | Andrea invests $5 000 at 8% p.a. simple interest for a period of 9 months. How much interest does she earn?  A. $300 B. $400 C. $3 600 D. $5760 | | | |
| 8. | Candida is offered a loan that will see her earn $360 in simple interest from an investment of $1 200 for 6 years. What was the simple interest rate?  A. 4% B. 5% C. 6% D. 8% | | | |
| 9. | Which is the best value for money when buying the same brand of soft drink?  A. 325 mL can for $1.30  B. 375 mL bottle for $1.80  C. 600 mL bottle for $2.10  D. 1.25 L bottle for $4.50 | | | |
| 10. | A store offers “buy one get the second at half price” on shirts.  What discount is this equivalent to, on the normal price of 2 shirts?  A. 12%  B. 25 %  C. 50%  D. 75% | | | |

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| Year  9 | | | Mathematics Test  Simple Interest and Consumer Maths | | Calculator Allowed |
| Longer Questions | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this test paper.  Calculators are allowed for this section. | | | | |
| 1. | Justin is buying a wardrobe marked at a cash price of $460.00, on terms. He pays 20% deposit, and then pays it off in monthly payments of $19.00 over 2 years. | | | | |
|  | (a)  1  Mark | How much did he pay as a deposit?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| (b)  2 marks | How much did he pay off in instalments?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| (c)  2 marks | What rate of simple interest was he charged on the balance (to the nearest percent)?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Carla bought a second hand car valued at $16 000 on terms. She paid a 25% deposit and then was charged 6% pa simple interest on the balance which she paid off in monthly payments over 4 years. | | | | |
|  | a)  1 mark | What was the balance that Carla had to pay off after the deposit?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| b)  2 marks | How much simple interest was she charged on the balance?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| (c)  2 marks | How much would she pay each month to pay off the balance and the interest?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | Mathematics Test  Simple Interest and Consumer Maths | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Multiple Choice Answer Sheet | |

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D

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| Year  9 | Mathematics Test  Simple Interest and Consumer Maths |
| Answer Sheet |

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| Short Answer | |
| 1 | $143 |
| 2 | 35% |
| 3 | 2kg Pack is best value at $8.20/kg. |
| 4 | Save $8 by choosing brand A. |
| 5 | $360 |
| 6 | $2 640 |
| 7 | $9 180 |
| 8 | 7% pa |
| 9 | 6 years |
| 10 | $36 |

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| Multiple Choice | |
| 1 | C |
| 2 | C |
| 3 | B |
| 4 | D |
| 5 | D |
| 6 | A |
| 7 | A |
| 8 | B |
| 9 | A |
| 10 | B |

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| Longer Answer | | |
| 1 | a | $92 |
|  | b | $456 |
|  | c | 12% |
|  |  |  |
| 2 | a | $12 000 |
|  | b | $2 880 |
|  | c | $310 |