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| MC900229237[1] ACE Examinations  2016  **YEAR 7**  **NAPLAN EXAMINATION** | | Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Numeracy | | |
| **General Instructions**   * Working time - 80 minutes * There will be a short break between Non-Calculator and Calculator examinations * Write using a pencil only * Shade one bubble in the multiple-choice questions * Write your answer in the box for the short answer questions | **Total marks - 64**  **Non-Calculator**  **32 marks**  Attempt Questions 1-32  Allow 40 minutes for this examination  **Calculator**  **32 marks**  Attempt Questions 1-32  Allow 40 minutes for this examination | |

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| 2016  **YEAR 7**  **NAPLAN EXAMINATION** | | Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Numeracy | | |
| **Non-Calculator** | **32 marks**  Time allowed for this exam is 40 minutes  Calculators are NOT to be used in this exam  Each question is worth 1 mark  Multiple choice questions – Shade one bubble  Short answer questions – Write your answer in the box provided | |

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|  | **Dress - $56** | | | | | | **Jumper - $42** | | | | **Shoes - $95** | | |
|  |  | | | | | |  | | | |  | | |
|  | What is the best way to estimate the total cost of these objects? | | | | | | | | | | | | |
|  | ○ | | | |  | | | | ○ | | | |  |
|  | ○ | | | |  | | | | ○ | | | |  |
|  | | | | | | | | | | | | | |
| 1. 8.25, 8.0, 7.75, 7.5, 7.25, …. | | | | | | | | | | | | | |
| What is the rule to continue this decimal number pattern? | | | | | | | | | | | | | |
|  | ○ Decrease by 0.25 | | | | | | | | ○ Increase by 0.25 | | | | |
|  | ○ Decrease by 0.5 | | | | | | | | ○ Increase by 0.5 | | | | |
|  | | | | | | | | | | | | | |
| 1. Simplify this expanded form: | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
|  | | | 51 384 | | | 513 084 | | | | 5 013 084 | | 5 103 804 | |
|  | | | ○ | | | ○ | | | | ○ | | ○ | |
|  | | | | | | | | | | | | | |
| 1. What is the product of 602 and 20? | | | | | | | | | | | | | |
|  | | | 622 | | | 1 204 | | | | 6 020 | | 12 040 | |
|  | | | ○ | | | ○ | | | | ○ | | ○ | |
|  | | | | | | | | | | | | | |
| 1. Charlie made the net shown opposite.   What 3D object will this net make? | | | | | | | |  | | | | | |
|  | | ○ | | Triangular prism | | | |
|  | | ○ | | Triangular pyramid | | | |
|  | | ○ | | Equilateral triangle | | | |
|  | | ○ | | Scalene triangle | | | |

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| 1. Which of the following is 0.71 converted to as a fraction? | | | | | | | | | | | | |
|  | | |  | | |  | | | |  | |  |
|  | | | ○ | | | ○ | | | | ○ | | ○ |
|  | | | | | | | | | | | | |
| 1. Riley jumped from the top of a cliff at A.   What distance does he travel from A to reach the bottom of the sea at B? | | | | | | |  | | | | | |
|  | 2 m | | | 6 m | | | | 10 m | | | 16 m | |
|  | ○ | | | ○ | | | | ○ | | | ○ | |
|  | | | | | | | | | | | | |
| 1. Three of the following calculations give the same value.   Which one gives a different value? | | | | | | | | | | | | |
|  | |  | | |  | | | |  | | |  |
|  | | ○ | | | ○ | | | | ○ | | | ○ |
|  | | | | | | | | | | | | |
| 1. What is the sixth term of the pattern 1, 4, 7,…? | | | | | | | | | | | | |
|  | | | 10 | | | 11 | | | | 13 | | 16 |
|  | | | ○ | | | ○ | | | | ○ | | ○ |
|  | | | | | | | | | | | | |
| 1. How many faces has this solid? | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | | | 6 | | | 8 | | | | 10 | | 12 |
|  | | | ○ | | | ○ | | | | ○ | | ○ |
|  | | | | | | | | | | | | |
| 1. What is $6 as a percentage of $24? | | | | | | | | | | | | |
|  | 4% | | | 6% | | | | 24% | | | 25% | |
|  | ○ | | | ○ | | | | ○ | | | ○ | |

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| 1. Lily is drawing a square on this grid. She has drawn two corner points as shown.   Lily makes (4, 3) the third corner.  Where will be the fourth corner? | | | | | | |  | | | | | | | | |
|  | (2, 0) | | | (0, 2) | | | | (2, 2) | | | | (3, 1) | | | |
|  | ○ | | | ○ | | | | ○ | | | | ○ | | | |
|  | | | | | | | | | | | | | | | |
| 1. What is the value of *x*? | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | 28˚ | | 32˚ | | | | 62˚ | | | | 118˚ | | |
|  | | | ○ | | ○ | | | | ○ | | | | ○ | | |
|  | | | | | | | | | | | | | | | |
| 1. The dimensions of a large cube are double the dimensions of a small cube.   The volume of the small cube is 0.10 cubic metres.  What is the volume of the large cube? | | | | | | | | | | | | | | | |
|  | 0.20 m3 | | | 0.40 m3 | | | | | | 0.80 m3 | | | | 1.60 m3 | |
|  | ○ | | | ○ | | | | | | ○ | | | | ○ | |
|  | | | | | | | | | | | | | | | |
| 1. A bag contains 18 white, 10 red, 9 black and 13 blue balls.   Without looking Ethan takes one ball from the bag.  What is the chance the ball is red? | | | | | | | | | | | | | | | |
|  | |  | | | |  | | | | |  | | | |  |
|  | | ○ | | | | ○ | | | | | ○ | | | | ○ |
|  | | | | | | | | | | | | | | | |

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| 1. Ryan looks at his alarm clock. It is in the morning and his train arrives at 13:15.   How long does he have to wait, before his train arrives? | | | | | | | | | | | | | | |  | | | |
|  | 1 hour 15 mins | | | | | | 2 hours 15 mins | | | | | 2 hours 25 mins | | | | 3 hours 5 mins | | |
|  | ○ | | | | | | ○ | | | | | ○ | | | | ○ | | |
|  | | | | | | | | | | | | | | | | | | |
| 1. A rectangular field has a perimeter of 70 metres. Each long side has a length of 25 metres.   What is the length of each short side?  (Answer to the nearest metre) | | | | | | | | | | |  | | | | | | | |
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|  | | | | | | | | | | | | | | | | | | |
| 1. Evaluate | | | | | | | | | | | | | | | | | | |
|  | | | | 20.12 | | | | 20.645 | | | | | | 22.12 | | | 22.145 | |
|  | | | | ○ | | | | ○ | | | | | | ○ | | | ○ | |
|  | | | | | | | | | | | | | | | | | | |
| 1. What is another way of writing ? | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | |  | | | | |  | | | |  | |
|  | | | | ○ | | | | ○ | | | | | ○ | | | | ○ | |
|  | | | | | | | | | | | | | | | | | | |
| 1. Jessica is travelling along Campbell St towards Taylor Square.   She makes a left turn into Crown St and then a left turn into Oxford St.  What direction is Jessica travelling along Oxford St? | | | | | | | | | | N | | | | | | | | |
|  | | | ○ | | North-East | | | | |
|  | | | ○ | | North-West | | | | |
|  | | | ○ | | South-East | | | | |
|  | | | ○ | | South-West | | | | |
|  | | | | | | | | | | | | | | | | | | |

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| 1. Billy bought a painting for $80, and then sold it for $150.   Later, he bought it again for $235, and then sold it for $300.  How much money did he make in total? | | | | | | | | | | | | | | | | |
|  | $15 | | | | $70 | | | | | $135 | | | | $450 | | |
|  | ○ | | | | ○ | | | | | ○ | | | | ○ | | |
|  | | | | | | | | | | | | | | | | |
| 1. Draw all the axes of symmetry of the shape below. | | | | | | | | | | | | | | | | |
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|  | | | | | | | | | | | | | | | | |
| 1. A meeting is held on the first Monday of each month.   There was a meeting held on the 5th October.  What is the date of the first November meeting? | | | | | | | | | | | | | | | | |
|  | |  | | | | | | November | | | | | | | | |
|  | |  | |  | | | | |  | | | |  | | | |
|  | | | | | | | | | | | | | | | | |
| 1. Which container has the most water? | | | | | | | | | | | | | | | | |
|  | | |  | | |  | | | | | |  | | | |  |
|  | | | ○ | | | | ○ | | | | ○ | | | | ○ | |
|  | | | | | | | | | | | | | | | | |
| 1. Which of these is the longest distance? | | | | | | | | | | | | | | | | |
|  | | | 0.1305 km | | | | 135 m | | | | 1350 cm | | | | 13 050 mm | |
|  | | | ○ | | | | ○ | | | | ○ | | | | ○ | |
|  | | | | | | | | | | | | | | | | |

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| 1. Sophia buys 25 boxes of peaches.   Each box costs $36.  The total cost of the boxes is .  Which calculation is another way of working out the total cost? | | | | | | | | | | |  | | |
|  | | | ○ | |  | | | | | |
|  | | | ○ | |  | | | | | |
|  | | | ○ | |  | | | | | |
|  | | | ○ | |  | | | | | |
|  | | | | | | | | | | | | | |
| 1. Which fraction has the same value as ? | | | | | | | | | | | | | |
|  |  | | | | |  | |  | | | |  | |
|  | ○ | | | | | ○ | | ○ | | | | ○ | |
|  | | | | | | | | | | | | | |
| 1. This pyramid has a square base. | | | | | | | | | | | | | |
| Macintosh HD:Users:gregorypowers:Desktop:Screen Shot 2015-10-31 at 7.56.37 AM.png | | | | | | | | | | | | | |
| The area of the square base is 40 000 m2.  What is the length (m) of one side of the base? | | | | | | | | | | | | | |
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| 1. The number of motor vehicles passing through a set of traffic lights each day was   11, 7, 14, 13, 5, 5 and 18.  Which of the following is the smallest? | | | | | | | | | | | | | |
|  | | Mean | | | | | Median | | Mode | | | Range | |
|  | | ○ | | | | | ○ | | ○ | | | ○ | |
|  | | | | | | | | | | | | | |

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| 1. This chart shows the number of people that can sit at tables placed end to end in a line. | | | | | | | | | | | | | |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Number of tables in the line | 2 | 3 | 4 | 5 | 6 | 7 | | Number of people | 10 | 14 | 18 | 22 | 26 | 30 | | | | | | | | | | | | | | |
| What is the minimum number of tables in the line needed to seat 36 people? | | | | | | | | | | | | | |
|  | | | 7 | | | 8 | | | | 9 | | 10 | |
|  | | | ○ | | | ○ | | | | ○ | | ○ | |
|  | | | | | | | | | | | | | |
| 1. William’s height is 4 times that of his son and twice that of his daughter.   If the height of his daughter is 96 cm, how tall is his son?  (Answer to the nearest centimetre) | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
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|  | | | | | | | | | | | | | |
| 1. An equilateral triangle is drawn on the side of a square as shown.   A diagonal of a square is extended to form the shaded angle.  What is the size of the shaded angle? | | | | | | | | |  | | | | |
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**STOP – END OF TEST**

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| 2016  **YEAR 7**  **NAPLAN EXAMINATION** | | Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Numeracy | | |
| **Calculator** | **32 marks**  Time allowed for this exam is 40 minutes  Calculators are allowed in this exam  Each question is worth 1 mark  Multiple choice questions – Shade one bubble  Short answer questions – Write your answer in the box provided | |

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| 1. Max has $18 and would like to buy lollies that cost 75 cents each.   Which of these calculations would allow Max to find the number of lollies he can buy? | | | | | | | | | | | | | | | |
|  |  | | | | | |  | | |  | | |  | | |
|  | ○ | | | | | | ○ | | | ○ | | | ○ | | |
|  | | | | | | | | | | | | | | | |
| 1. The place value of 8 in 3 286 500 is: | | | | | | | | | | | | | | | |
|  | | | Hundreds | | Hundreds of thousands | | | | | | | Tens of thousands | | | Thousands |
|  | | | ○ | | ○ | | | | | | | ○ | | | ○ |
|  | | | | | | | | | | | | | | | |
| 1. Scarlett ran for 2 minutes. She was running at a speed of 6 metres per second.   How far did she run? | | | | | | | | | | | | | | | |
|  | 12 m | | | | | 72 m | | | 120 m | | | | 720 m | | |
|  | ○ | | | | | ○ | | | ○ | | | | ○ | | |
|  | | | | | | | | | | | | | | | |
| 1. How many sides in a pentagon? | | | | | | | | | | | | | | | |
|  | | | 4 | | | | | 5 | | | 6 | | | 7 | |
|  | | | ○ | | | | | ○ | | | ○ | | | ○ | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| The scatter plot shows the sale price of nine houses and their distance from the city.  The scatter plot indicates that: | | | | | | | | | | | | | | | |
|  | | ○ | | houses are usually cheaper if they are closer to the city. | | | | | | | | | | | |
|  | | ○ | | houses are more expensive if they are further from the city. | | | | | | | | | | | |
|  | | ○ | | the most expensive house is furthest from the city. | | | | | | | | | | | |
|  | | ○ | | house prices are related to their distance from the city. | | | | | | | | | | | |

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| 1. What is the area of the following rectangle? | | | | | | | | | |
|  | | | | | | | | | |
|  | | | 11.8 cm2 | | 21.85 cm2 | | 23.6 cm2 | | 43.7 cm2 |
|  | | | ○ | | ○ | | ○ | | ○ |
|  | | | | | | | | | |
| 1. The area of Australia is 7 691 924 square kilometres.   What is this area rounded to the nearest thousand square kilometres? | | | | | | | | | |
|  | | | 7 000 000 | | 7 600 000 | | 7 691 000 | | 7 692 000 |
|  | | | ○ | | ○ | | ○ | | ○ |
|  | | | | | | | | | |
| 1. The diagram below shows a block of land. | | | | | | | | | |
|  | | | | | | | | | |
| What is the perimeter of this land? | | | | | | | | | |
|  | 980 m | | | 1040 m | | 1242 m | | 1376 m | |
|  | ○ | | | ○ | | ○ | | ○ | |
|  | | | | | | | | | |
| What is the value of ? | | | | | | | | | |
|  | |  | |  | |  | |  | |
|  | | ○ | | ○ | | ○ | | ○ | |
|  | | | | | | | | | |

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| What is the size of angle *ABC*? | | | | |  | | | | | |
|  | | | | | | | | | | |
| 1. The menu at the local shop is shown below. | | | | | | | | | | |
| **MENU**  Hamburger $4.75  French Fries $2.20  Milkshake $3.60  Soft drink $3.20 | | | | | | | | | | |
| Calculate the total cost of the following order:  3 hamburgers, 2 French fries, 3 milkshakes and 2 soft drinks. | | | | | | | | | | |
|  | | $13.75 | | $23.85 | | | $35.85 | | | $41.25 |
|  | | ○ | | ○ | | | ○ | | | ○ |
|  | | | | | | | | | | |
| 1. How many 200 mL cups can be filled from a 1.2 L bottle of water? | | | | | | | |  | | |
|  | | | | | | | |
|  | | | | | | | | | | |
| 1. A box weighs 5 kilograms and 300 grams. This is the same as: | | | | | | | | | | |
|  | 530 grams | | 1500 grams | | | 5030 grams | | | 5300 grams | |
|  | ○ | | ○ | | | ○ | | | ○ | |
|  | | | | | | | | | | |

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| 1. A 3D object has 6 faces. Only 2 faces are trapeziums, the other 4 are rectangles.   What is the object? | | | | | | | | | | | | | |
|  | | | Cube | | | Hexagon | | | | Prism | | | Pyramid |
|  | | | ○ | | | ○ | | | | ○ | | | ○ |
|  | | | | | | | | | | | | | |
| 1. Which one of these expressions is false? | | | | | | | | | | | | | |
|  | | |  | | |  | | | |  | | |  |
|  | | | ○ | | | ○ | | | | ○ | | | ○ |
|  | | | | | | | | | | | | | |
| 1. Oscar has 80 DVDs.   The table below shows the percentage of each type of DVD. | | | | | | | | | | | | | |
| |  |  | | --- | --- | | **Type of DVD** | **Percentage** | | Comedy | 45% | | Sport | 35% | | Mystery | 15% | | Romantic | 5% | | | | | | | | | | | | | | |
| How many mystery DVDs does Oscar own? | | | | | | | | | | | | | |
|  | | 12 | | | 15 | | | | 16 | | | 20 | |
|  | | ○ | | | ○ | | | | ○ | | | ○ | |
|  | | | | | | | | | | | | | |
| 1. The diagram shows an isosceles triangle.   The exterior angle is *x°*.  Find is the value of *x*. | | | | | | | |  | | | | | |
|  | 59° | | | 62° | | | 121° | | | | 124° | | |
|  | ○ | | | ○ | | | ○ | | | | ○ | | |
|  | | | | | | | | | | | | | |
| 1. Lucy was given 6 minutes to complete a puzzle.   When she finished, there were 260 seconds left on the timer.  How long did Lucy take to complete the puzzle? | | | | | | | | | | | | | |
|  | | | l min 40 s | | | 2 min 40 s | | | | 3 min 40 s | | | 4 min 40 s |
|  | | | ○ | | | ○ | | | | ○ | | | ○ |

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| 1. Henry thinks of a regular 2D shape.   It has only 3 pairs of parallel sides.  What is the shape? | | | | | | | | | | | | | | | | | | | |
|  | | | | Hexagon | | | | | Octagon | | | | Parallelogram. | | | | | | Triangle |
|  | | | | ○ | | | | | ○ | | | | ○ | | | | | | ○ |
|  | | | | | | | | | | | | | | | | | | | |
| 1. Which object has exactly twice as many edges as faces? | | | | | | | | | | | | | | | | | | | |
|  | |  | | | |  | | | | | | |  | |  | | | | |
|  | | ○ | | | | | | ○ | | | ○ | | | | | | ○ | | |
|  | | | | | | | | | | | | | | | | | | | |
| 1. Which of these numbers is a multiple of both 8 and 11? | | | | | | | | | | | | | | | | | | | |
|  | | | | 811 | | | | | 888 | | | 8118 | | | | | | 8888 | |
|  | | | | ○ | | | | | ○ | | | ○ | | | | | | ○ | |
|  | | | | | | | | | | | | | | | | | | | |
| 1. The plan of Charlie’s backyard is shown below.   It consists of a garden surrounded by lawn.  The garden has an area of 10 m2. | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
| What is the area of the lawn in Charlie’s backyard? | | | | | | | | | | | | | | | | | | | |
|  | 35 m2 | | | | | | 40 m2 | | | 70 m2 | | | | | | 80 m2 | | | |
|  | ○ | | | | | | ○ | | | ○ | | | | | | ○ | | | |
|  | | | | | | | | | | | | | | | | | | | |
| 1. Hannah subtracts an obtuse angle from a larger obtuse angle.   The result could be: | | | | | | | | | | | | | | | | | | | |
|  | | | ○ | | a zero angle | | | | | | | | |  | | | | | |
|  | | | ○ | | a right angle | | | | | | | | |
|  | | | ○ | | an acute angle | | | | | | | | |
|  | | | ○ | | an obtuse angle | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Tyler’s gas bill was $216 last month.   This month it is $162.  What percentage decrease is this? | | | | | | | | | | | | |
|  | | | 25% | | | 35% | | | 45% | | | 55% |
|  | | | ○ | | | ○ | | | ○ | | | ○ |
|  | | | | | | | | | | | | |
| 1. Four families flew to Australia.   The airline allows each person to have 21 kg of luggage. | | | | | | | | | | | | |
| |  |  |  | | --- | --- | --- | | **Family name** | **Number of people** | **Mass of family luggage** | | Brown | 🚹🚹🚹 | 51 kg | | Fox | 🚹🚹🚹🚹 | 86 kg | | Kent | 🚹🚹🚹🚹🚹 | 103 kg | | Tran | 🚹🚹🚹🚹🚹🚹 | 124 kg | | | | | | | | | | | | | |
| Which family had more than 21 kg of luggage per person? | | | | | | | | | | | | |
|  | Brown | | | Fox | | | Kent | | | Tran | | |
|  | ○ | | | ○ | | | ○ | | | ○ | | |
|  | | | | | | | | | | | | |
| 1. Which is the largest number? | | | | | | | | | | | | |
|  | | | 0.4 | | | 0.05 | | | 60% | | |  |
|  | | | ○ | | | ○ | | | ○ | | | ○ |
|  | | | | | | | | | | | | |
| 1. What is the value of *x* in this diagram? | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | | 45 | | | 55 | | | 60 | | | 75 | |
|  | | ○ | | | ○ | | | ○ | | | ○ | |
|  | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Zara throws a standard 6-sided die.   Which point on the number line best shows the chance of Zara throwing a 2? | | | | | | | | | | | |
|  | |  | | | | | | | | | |
|  | | | | | | | | | | | |
| 1. Thomas is building a brick wall that is 4 metres long.   The length of a row of 15 bricks is 1.2 metres.  How many bricks will Thomas need for 4 metre long brick wall? | | | | | | | | | | | |
|  | | | | | | | | | | | |
|  |  | |  | | |  | | |  | | |
|  | | | | | | | | | | | |
| 1. There are 360 boys and girls at a concert.   The ratio of boys to girls at the concert is 3 to 7.  How many boys are at the concert? | | | | | | | | | | | |
|  | | 108 | | | 120 | | 154 | | | | 252 |
|  | | ○ | | | ○ | | ○ | | | | ○ |
|  | | | | | | | | | | | |
| 1. Emily paid $9.60 to buy 1 coffee and 2 cakes.   If the coffee cost is 60 cents more than one cake, what is the cost of the coffee? | | | | | | | | | | | |
|  | | | | | | | | | | | |
|  |  | |  | | |  | | |  | | |
|  | | | | | | | | | | | |
| 1. Mia’s new car uses 5.1 litres of fuel per 100 km.   Her old car used 7.7 litres of fuel per 100 km.  Mia pays $1.30 per litre and drives 10 000 km each year.  How much money will Mia save on fuel each year with her new car? | | | | | | | | | | | |
|  | |  | | | | | | | | | |
|  | |  | |  | | | |  | |  | |

**STOP – END OF TEST**