|  |  |
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| **High School** | |
| **Half-Yearly Examination** | |
| **Year 10**  **Mathematics Course** | |
| **General Instructions**   * Reading time: 5 minutes * Working time: 2 hours * There will be a short break between Section 1 and Section 2 * Write using black or blue pen * You may use a pencil to draw or complete diagrams * Attempt ALL questions * Approved calculators may be used in Section 2. * Write your Name and Teacher’s Name in the spaces provided. * A formula Sheet is on the reverse of this page and can be detached and used in all sections of the test. | **Total Marks – 100**  **Section 1**  Non Calculator Section.  **25 marks**  Time allowed for this section is 30 minutes.  Write all answers in the spaces provided.  **Section 2**  Time allowed for this section is 1 hour and 30 minutes.  **Part A**  Multiple Choice Section.  Mark your answers on the separate answer sheet at the end of the examination.  **50 marks**  **Part B**  Longer Answer Section.  Write all answers in the spaces provided.  **25 marks** |

Formula Sheet

**Pythagoras’ Theorem**



*c* = hypotenuse

*a* and *b* are the shorter sides

**Circumference of a circle**



*d* = diameter

**Area of a circle**



*r* = radius

**Area of a parallelogram**



*b* = base

*h* = perpendicular height

**Area of a rhombus or kite**



*x* and *y* are the diagonals

**Area of a trapezium**



*h* = perpendicular height

*a* and *b* are the parallel sides

**Volume of a prism**



*A* = area of base

*h* = perpendicular height

**Volume of a pyramid**



*A* = area of base

*h* = perpendicular height

**Volume of a cylinder**



*r* = radius

*h* = perpendicular height

**Volume of a cone**



**Volume of a sphere**



**Surface Area of a Cylinder**



**Surface Area of Cone**



*r* = radius

*l* = slant height

**Surface Area of a sphere**



**Trigonometric formulae for a triangle ABC.**

**Sine Rule**



**Cosine Rule**



or



**Area of a triangle**



**Simple interest**



*P* = Principal

*r* = interest rate per time period as a decimal

*n* = number of time periods

**Compound Interest**



*A =* Final amount to which the investment grows

*P* = Principal

*r* = interest rate per compounding period as a decimal

*n* = number of compounding periods

**Depreciation**



*SV =* Salvage Value to which the the initial value falls

*IV* = Initial Value

*r* = depreciation rate per compounding period as a decimal

*n* = number of compounding periods

**Gradient of a line**



 and  are points on the line

*m* = gradient

**Midpoint of a line segment**



**Length of a line segment**



**Equation of a line**



or



*b* = *y* intercept

Half-Yearly Examination

**Mathematics**

Class/Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 1**

**25 marks**

Time allowed for this section is 30 minutes

Answer Questions 1–25 in the spaces provided.

Calculators are **NOT** to be used in this section.

There will be a short break between Section 1 and Section 2.

|  |  |
| --- | --- |
| **Section 1** Non Calculator Section | |
|  | Write all working and answers in the spaces provided on this test paper. |
| 1. | Amanda walks for  of an hour on Thursday,  hours on Friday and  hours on Saturday. How many hours did she walk altogether in the three days?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 2. | Find the value of  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 3. | Jeremy plays in a football team which last season won 48% of its matches and drew 24%.  The team won 12 matches, how many matches did they lose?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 4. | The Riverside Insurance company pays its salespeople a commission of 16% of their sales. Quentin is a salesman who last week sold policies worth $8 000.00.  What was his commission for the week?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 5. | Omar and his family make shirts at a cost of $16.00 each and they sell them for $28.00.  What is their profit as a percentage of the cost price?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 6. | Iain has 60 DVDs, 16 of which are documentaries and the rest are dramas. What is the ratio of documentaries to dramas?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 7. | A steam locomotive on a tourist train uses coal at a rate of 75 kg/h.  How many hours could the locomotive run, if it has 0.6 tonnes of coal left?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 8. | *ABC* is a straight line.  Find the value of *x*.  …………………………………………………  …………………………………………………  ………………………………………………… |
| 9. | What is the size of  ………………………………………………  ……………………………………………….  ………………………………………………  ……………………………………………….  ………………………………………………. |
| 10. | *AC* is one diagonal of a kite *ABCD*.  Given the location of *B*, use instruments to accurately complete the kite and draw the other diagonal *BD*. |
| 11. | Marjorie poured equal amounts of soft drink from a 3 litre bottle into 8 equal sized glasses. How many mL does each glass hold?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 12. | Tape is to be glued around the perimeter of this kite, to give it extra strength. What length of tape is needed?  ………………………………………………  ………………………………………………  ………………………………………………  ……………………………………………… |
| 13. | Find the area of the trapezium.  .........................................................................  .........................................................................    .........................................................................  ......................................................................... |
| 14. | What is the volume of the triangular prism shown?  .............................................................................    .............................................................................  .............................................................................    ............................................................................. |
| 15. | A  metre ladder leans against a wall with its feet  from the base of the wall.  How far up the wall does the ladder reach?  .............................................................................  .............................................................................    ............................................................................. |
| 16. | Simplify completely:  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 17. | If , what is the value of  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 18. | Expand – 5*a*(3*ab2* – 8*b*).  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 19. | The lines, whose equations are  are shown on the graph.  What are the coordinates of the point P?  ………………………………………………  ………………………………………………  ……………………………………………… |
| 20. | Evaluate  giving your answer as a single integer.  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 21. | Solve the equation below showing full working:    ..........................................................................................................................................................    ..........................................................................................................................................................    ..........................................................................................................................................................    .......................................................................................................................................................... |
| 22. | The sector graph below shows the proportion of votes that five candidates received in an election.  Norah received 1 440 votes.  How many votes did Jess receive?  (A protractor will be useful).  .....................................................................  .....................................................................    .....................................................................  ..................................................................... |
| 23. | The dot plot shows the number of mobile devices that were to be found in a survey of 25 houses.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  | • |  |  |  | • |  | |  |  | • |  |  |  | • |  | |  |  | • |  |  | • | • |  | |  |  | • | • | • | • | • |  | |  | • | • | • | • | • | • |  | |  | • | • | • | • | • | • | • | |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |  |  | Number of mobile devices | | | | |  |   What percentage of the houses surveyed had fewer than 2 devices?  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 24. | Six students record the number of hours that they study in a week. They were:  16, 22, 8, 24, 15 and 5.  Find the mean number of hours studied.  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
| 25. | A cumulative frequency column has been completed for the set of scores below, but the frequency column has been left out.  Find the interquartile range of the scores.     |  |  | | --- | --- | | Score | Cumulative  Frequency | | 2 | 3 | | 3 | 9 | | 4 | 17 | | 5 | 26 | | 6 | 34 |   ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. |
|  |  |
|  | End of Section 1 |

Half-Yearly Examination

**Mathematics**

**Section 2**

**75 marks**

Time allowed for this section is

1 hour and 30 minutes

This section has TWO parts

Part A – Fifty multiple-choice questions worth 1 mark each.

Mark your answers on the separate answer sheet provided at the end of the examination.

Part B – Longer answer questions worth a total of 25 marks.

Write all answers and working in the spaces provided on this examination paper.

Calculators may be used in this section.

Do not commence Section 2 until you are instructed to do so.

|  |  |
| --- | --- |
|  | Use the multiple choice answer sheet at the end of the paper to record your answers.  Complete shade the bubble corresponding to the correct answer for each question. |
|  | What is the single numeral for the number written in expanded notation below?       1. 9 876 B. 90 876 C. 908 706 D. 908 760 |
|  | What is 53.4782, when rounded correct to two significant figures?  A. 53 B. 54 C. 53.47 D. 53.48 |
|  | The ratio 1.8 kg : 2 400 g when written in simplest form is:   1. 3 : 4 B**.**  9 : 12 C. 6 : 8 D. 4 : 3 |
|  | Toni is paid at normal rates of $25.40 per hour. In one week she was paid for 40 hours at normal rates and 8 hours overtime at time and a half. What was her gross pay for the week?  A. $1 219.20 B. $1 320.80 C. $1 422.40 D. $1 828.80 |
|  | A retailer calculates that he needs to sell a shoe for a price of $23.00 before adding 10% GST.  What is the price after the GST is added?  A. $23.10 B. $24.00 C. $25.10 D. $25.30 |
|  | *a =?*  A. 90o  B. 135o  C. 225o  D. 270o |
|  | Find the size of  .  A.  B.  C.  D. |
|  | Which triangle could be the image of Triangle A after a reflection?   1. Triangle P.   B. Triangle Q.  C. Triangle R.  D. Triangle S. |
|  | Which triangle below is an acute isosceles triangle?  A. B. C. D. |
|  | In which of these quadrilaterals do the diagonals bisect one another at right angles?  A. Rhombus B. Rectangle. C. Parallelogram D. Trapezium. |
|  | What is the area of the sector of a circle shown, (correct to the nearest cm2)?  A. 101 cm2  B. 134 cm2  C. 201 cm2  D. 223 cm2 |
|  | Find the area of this field.    A. 390 m2  B. 412.5 m2  C. 450 m2  D. 502.5 m2 |
|  | A swimming pool has an irregular shape but a constant depth of 1.2 metres.  The area of the floor of the pool is 75m2.  How many litres of water does the pool hold? (Each m3 holds one kilolitre.)  A. 9 000 L B. 45 000 L C. 90 000 L D. 180 000 L |
|  | Which of these triangles is right angled?  A. Triangle P only B. Triangle Q only C. Both Triangles D. Neither Triangle |
|  | In the diagram  A.  B.  C.  D. |
|  | A.  B.  C.  D. |
|  | Which expression below represents “ the sum of twice *x* and *y* ” ?  A.  B.  C.  D. |
|  | The points *P*(-3, 1), *Q*(-2,6) and *R*(8,8) are three vertices of a parallelogram. What are the coordinates of the fourth vertex, *S*?   1. (6, 2) 2. (6, 3) 3. (7, 2) 4. (7, 3) |
|  | A.  B.  C.  D. |
|  | Which value below is a solution to the inequation:  A.  B.  C.  D. |
|  | Lucinda does a survey of the times that the students in her class spent on Facebook last night.  This is an example of:  A. Continuous Numerical Data. B. Discrete Numerical Data.  C. Continuous Categorical Data. C. Discrete Categorical Data. |
|  | The stem and leaf plot shows the number of the fares taken in a week by the 11 cabs owned by a taxi company.  One digit has been replaced by the letter **X**.  There were 470 fares taken altogether in the week.     |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 2 | 1 |  |  |  |  | | 3 | 2 | 5 | 5 |  |  | | 4 | 2 | 2 | **X** | 8 |  | | 5 | 3 | 8 | 9 |  |  | |  |  |  |  |  |  |   What number should go in the position held by the letter **X**?  A. 2 B. 3 C. 4 D. 5 |
|  | What is the median of the data shown in the dot plot?  A. 4   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  | O | O |  |  |  |  | |  | O |  |  | O | O |  |  |  |  | |  | O | O |  | O | O | O | O |  | O | |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   B. 4.5  C. 5  D. 8 |
|  | The frequency distribution table shows the number of passengers taken on a mini bus over a number of weeks.  What was the mean number of passengers?   |  |  |  | | --- | --- | --- | |  | |  | | Number of passengers | Frequency | *fx* | | 20 | 1 | 20 | | 21 | 3 | 63 | | 22 | 7 | 154 | | 23 | 8 | 184 | | 24 | 6 | 144 | | 25 | 5 | 125 |   A. 22 B. 22.5 C. 23 D. 23.5 |
|  | What is the interquartile range of the scores below?  12, 13, 15, 17, 19, 20, 22, 25  A. 4 B. 5 C. 7 D. 13 |
|  | There are three deals available on the same T shirts at four different shops.  Which is the best value for money if you wanted to buy three T shirts?  A: Regular price of $12.00.  B: 10% off the regular price of $13.00.  C: A third T shirt free when you buy two at $18.00 each.  D: A third T shirt at half price when you buy two at $14.00 each. |
|  | Which calculation would you use to find the amount that $8 000 grows to when invested at 6% p.a. interest compounding monthly for two years.  A.  B.  C.  D. |
|  | Quentin deposits $12 000 into a term deposit. The account earns interest at the rate of 12% pa compounding quarterly. If he invests the money for a term of 9 months, how much interest will he earn?  A. $1 112.72 B. $3 657.28 C. $4 859.14 D. $21 276.95 |
|  | Otto bought a laptop exactly 3 years ago for $1 200.00. It depreciates at 15% pa compounded annually. What is its value now?  A. $40.50 B. $452.58 C. $506.25 D. $736.95 |
|  | Alanna mixes concrete which consists of sand, aggregate and cement in the ratio 5 : 3 : 1.  If she has 9 buckets of aggregate how many buckets of sand and cement will she need?  A. 10 buckets of sand and 3 buckets of cement.  B. 10 buckets of sand and 6 buckets of cement.  C. 15 buckets of sand and 3 buckets of cement.  D. 15 buckets of sand and 6 buckets of cement. |
|  | Find the value of *c*.  A.  B.  C.  D. |
|  | Which is true?    A. *m* = 24o  B. *m* = 80o  C. *m* = 100o  D. *m* = 128o |
|  | *A’B’C’D’* is the image of *ABCD* after a rotation.  Which statement is not necessarily true?  A. The matching sides are parallel.  B. The matching sides are equal.  C. The matching angles are equal.  D. The areas are the same. |
|  | What is the value of *b*?  A. 53o  B. 75o  C. 127o  D. 158o |
|  | *KLMN* is a parallelogram.    What is the size of  A. 52o  B. 56o  C. 72o  D. 128o |
|  | A cylindrical water tank has the dimensions shown. What is the volume of the tank to the nearest cubic metre?  A. 10 m3  B. 20 m3  C. 40 m3  D. 80 m3 |
|  | A mini greenhouse is in the shape of a triangular prism.  It has plastic film on all faces except the floor.  What area of plastic is needed for the greenhouse?  A. 2.55 m2 B. 4.5 m2  C. 5.1 m2 D. 6.6 m2 |
|  | What is the surface area of this cylinder?  A.  B.  C.  D. |
|  | Find the value of, correct to the nearest degree.  A. 35o     1. 44o   C. 46o  D. 55o |
|  | From the top deck of a lighthouse which is built on a vertical cliff, the angle of depression of a yacht is 35o.  The deck of the lighthouse is 240 m above the level of the ocean.  How far is the yacht from the base of the cliff?  A. 138 m B. 168 m  C. 196 m D. 343 m |
|  | when fully factorised is:  A.  B.  C.  D. |
|  | The gradient of the line shown is :  A.  B.  C.  D. 3 |
|  | Find the length of the interval joining *M*(-5, 7) and *N*(-1, 0).  A. units B. units C. units D. 11 units |
|  | A.  B.  C.  D. |
|  | Which line in the solution of the equation  , contains an error?    A. Line 1 B. Line 2 C. Line 3 D. Line 4 |
|  | The line graph shows the temperature of a patient during a period when she was admitted to hospital.      For how many hours was her temperature at or above 39o C?  A. One hour B. One and a half hours.  C. Two and a quarter hours D. Two and a half hours |
|  | Which term best describes the distribution of goals scored in the graph shown?   1. Outliers   B. Skewed  C. Statistical  D. Symmetrical |
|  | **Questions 73 and 74** refer to the stem and leaf plot which shows the number of points scored by the twenty teams in a trivia quiz.     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 0 | 9 |  |  |  |  |  | | 1 | 4 | 9 |  |  |  |  | | 2 | 3 | 4 | 6 | 8 | 9 |  | | 3 | 1 | 2 | 4 | 5 | 8 | 9 | | 4 | 1 | 3 | 3 | 4 |  |  | | 5 | 3 | 5 |  |  |  |  | |
|  | Which two measures have the same value?  A. The mean and mode. B. The mean and median.  C. The median and mode. D. No two are the same. |
|  | What is the interquartile range of the scores?  A. 8 B. 15 C. 16 D. 17 |
|  | The back to back histogram shows the distribution of the number of books read by thirty students at two schools in the MS readathon.  Which statement is true?  A. The Bridgetown data is symmetrical.  B. The Bridgetown data has a greater median.  C. The Smithfield data has a greater range.  D. The Smithfield data has two modal values. |
| End of Section 2 - Part A | |

|  |  |  |
| --- | --- | --- |
| **Section 2**  **Part B**  Longer Answer Section | | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Class/Teacher\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Write all working and answers in the spaces provided on this examination paper.  Calculators are allowed for this section. | |

|  | | **Marks** |
| --- | --- | --- |
|  | On the weekend, Livinia spent 15 hours sleeping, 8 hours shopping and 6 hours working on an assignment. |  |
|  | 1. What is the ratio of the hours spend sleeping to those spent working on the assignment, in simplest form?   ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **1** |
|  | 1. The ratio of the hours she spent shopping to those spent watching TV was 2 : 3.   How many hours did she spend watching TV?  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **1** |
|  | 1. When working on the assignment, she wrote 15 pages of notes. At what average rate (in pages per hour) did she write the notes?   ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **1** |
|  | Find the value of *x*, giving reasons.  ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **3** |
|  | A farm has a tank which is in the shape of a rectangular prism, which delivers water to a trough for stock, which is a half cylinder. Their dimensions are shown on the diagram. |  |
|  | 1. What is the capacity of the trough in litres? (1 m3 holds 1 kilolitre.)   ………………………………………………………………………..…………………………………………….  ………………………………………………………………………………………………..…………………….  ……………………………………………………………………………………………….…………………….. | **2** |
|  | 1. How many times could the trough be filled from the full tank?   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **1** |
|  | David (D), Evan (E) and Frank (F) are experimenting with walkie talkies.  Evan walks 750 m due east from David and then due south until his signal has dropped out. At this point he is on a bearing of 130o from David.  Frank is due south of David, and on an east-west line which runs 100m south of Evan. |  |
|  | 1. How far is Evan from David in a straight line?   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **2** |
|  | 1. What is the bearing of Frank from Evan?   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ………………………………………………………………………………………………. | **2** |
|  | The table gives the value of an article initially valued at $1000 under a variety of depreciation rates.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | Depreciation rate pa | | | | | | | | Years | 4.5% | 5.0% | 5.5% | 6.0% | 6.5% | 7.0% | 7.5% | | Owned | | 1 | $955.00 | $950.00 | $945.00 | $940.00 | $935.00 | $930.00 | $925.00 | | 2 | $912.03 | $907.25 | $902.48 | $897.70 | $892.93 | $888.15 | $883.38 | | 3 | $870.98 | $866.42 | $861.86 | $857.30 | $852.74 | $848.18 | $843.62 | | 4 | $831.79 | $827.43 | $823.08 | $818.72 | $814.37 | $810.02 | $805.66 | | 5 | $794.36 | $790.20 | $786.04 | $781.88 | $777.72 | $773.56 | $769.41 | | 6 | $758.61 | $754.64 | $750.67 | $746.70 | $742.73 | $738.75 | $734.78 | | 7 | $724.48 | $720.68 | $716.89 | $713.10 | $709.30 | $705.51 | $701.72 | | 8 | $691.87 | $688.25 | $684.63 | $681.01 | $677.38 | $673.76 | $670.14 | | 9 | $660.74 | $657.28 | $653.82 | $650.36 | $646.90 | $643.44 | $639.98 | |  |
|  | 1. What is the value of a guitar worth $1 000 when new, after it depreciates at 5.5% pa for 7 years?   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **1** |
|  | 1. How much value is lost by a car which was worth $20 000 when new, after it depreciates at 6.5% pa for 8 years?   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **2** |
|  | 1. Complete the frequency distribution table below.      |  |  |  |  | | --- | --- | --- | --- | | Class | Class Centre (*x*) | Frequency (*f*) | *fx* | | 1 – 3 | 2 | 2 |  | | 4 – 6 | 5 | 5 |  | | 7 – 9 | 8 | 8 |  | | 10 – 12 | 11 | 4 |  | | 13 – 15 | 14 | 5 |  | | 16 – 18 | 17 | 6 |  | | **2** |
|  | 1. Calculate the mean of the scores, using the table. (Answer correct to the nearest tenth.)   ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **1** |
|  | 1. Expand and simplify   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **1** |
|  | 1. Solve the equation below, showing full working.     ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **2** |
|  | The points E (3, -4), F (-5, 2) and G (-3, 4) are the vertices of a triangle. |  |
|  | 1. Find the midpoint of side FG.   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **1** |
|  | 1. Show, by calculation, that the triangle EFG is isosceles.   ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….……………………..  ……………………………………………………………………………………………….…………………….. | **2** |
| End of Examination | | |

High School

Half-Yearly Exam

Mathematics Course

Multiple Choice Section Answer Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

26. A B C D

27. A B C D

28. A B C D

29. A B C D

30. A B C D

31. A B C D

32. A B C D

33. A B C D

34. A B C D

35. A B C D

36. A B C D

37. A B C D

38. A B C D

39. A B C D

40. A B C D

41. A B C D

42. A B C D

43. A B C D

44. A B C D

45. A B C D

46. A B C D

47. A B C D

48. A B C D

49. A B C D

50. A B C D

51. A B C D

52. A B C D

53. A B C D

54. A B C D

55. A B C D

56. A B C D

57. A B C D

58. A B C D

59. A B C D

60. A B C D

61. A B C D

62. A B C D

63. A B C D

64. A B C D

65. A B C D

66. A B C D

67. A B C D

68. A B C D

69. A B C D

70. A B C D

71. A B C D

72. A B C D

73. A B C D

74. A B C D

75. A B C D