



Name: _____

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PLEASE NOTE:

- Answer the questions on the question sheet.
- Fill in your answer in the block provided.
- You may answer this paper in pairs or on your own.
- You may not use a calculator.
- Read the questions **carefully!**
- Enjoy it!



CASIO

1. If we are currently in October, what month will it be 361 months from now?

2. What is the next number in the pattern below?
1; 1; 2; 3; 5; 8; 13; 21; 34; 55; ?

3. In the magic square below, the sum of the numbers in every row, column and diagonal are equal. What is the sum of the numbers represented by A, B and C?

9	2	A
4	B	8
5	10	C

4. David needs 48 slices of pizza for a party. If each pizza is cut into 8 slices, what is the minimum number of pizzas that David would order?



5. If the pattern of the first five letters in **WATERWATER** continues, what would the 500th letter be?

6. The sum of three **consecutive odd numbers** is 201. Which is the smallest of these numbers?

7. The learners in Mr Sherman's class are evenly spaced around a circle. Each learner has a partner directly opposite him or her. They count up in order of the circle, beginning with number 1. The learner who says 6 is directly opposite the learner who says 13. How many learners are in Mr Sherman's class?

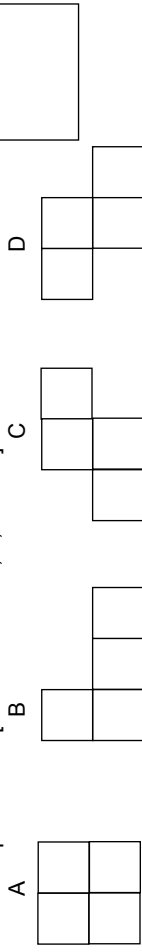
8. How many positive prime numbers leave a remainder of 0 when divided by 2?

9. If $(4 \times n) - 22 = 46$, what is the value of n?

10. In 10 year's time, the combined ages of 4 children will be 100. What is their combined age now?



11. All the figures below consist of the same four squares of area size. Which figure has the smallest perimeter? [Write in either A, B, C or D.]

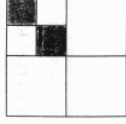


12. The local shop is offering a full 1-litre coke for every 7 empty bottles brought into the shop. What is the most number of full cokes you can get if you brought in 49 empty bottles?



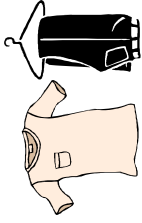
13. Because his animals were crowded in the rectangular cattle section, Old MacDonald decided to double the width and triple the length of the cattle section. How many times is the newer section bigger than the old one?

14. What fraction of the entire figure is shaded?

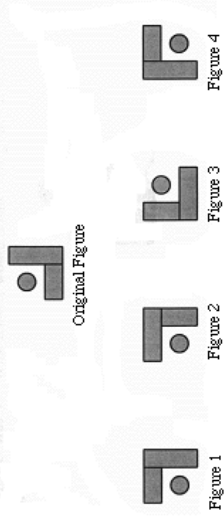


15. A fungi cell doubles in quantity every minute. At 08:50 a single fungi cell is placed on a slice of bread and two hours later, the slice is completely covered with fungi. At what time was the slice one quarter covered with fungi?

16. Sandy has one each of navy, white, red and black T-shirts. She also has one each of grey, khaki and black pants. How many **different** combinations of outfits (T-shirts and pants) can she make?



17. If the original figure below is rotated 90 degrees **counter clockwise**, which of the figures below shows the result of this rotation?

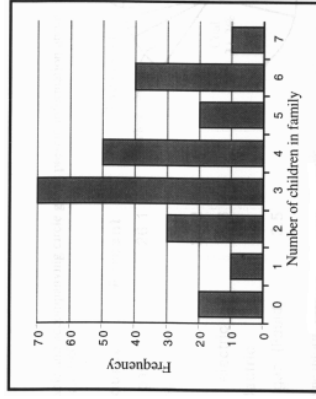


18. Which fraction below is nearest in value to $\frac{205}{305}$? [Write in either A, B, C, D or E.]

- (A) $\frac{209}{309}$ (B) $\frac{2005}{3005}$ (C) $\frac{25}{35}$ (D) $\frac{250}{350}$ (E) $\frac{2050}{3050}$

19. Mike wrote four tests: Maths, English, Science and History. He got 74% in English and 84% in History. His Maths score was better than his Science score by 6%. The average of the four tests was 72. What percentage did he get for Science?

20. Mathsville is a suburb in the city. The graph below shows the results of a recent survey of the 250 families living in this town. For example, 20 families had no children and 10 families had one child each. Using the graph below, what is the total number of children living in Mathsville?



21. Using the graph in the previous question, how many families had six or more children?

22. A father and a son are involved in a car accident. The father dies and the son is rushed to the hospital. The doctor walks in and screams, "I cannot operate on my son!" Who is the doctor?



23. Which of the following fractions is an expression equal to zero? [Write in either A, B, C or D.]

- a) $\frac{0}{0}$ b) $\frac{1}{0}$ c) $\frac{0}{1}$ d) $\frac{1}{1}$

24. Which number is represented by the A in the multiplication sum below?

$$\begin{array}{r} 6 \text{ A } 5 \\ \times 741 \\ \hline 463125 \end{array}$$

25. The local shop is selling a chocolate and a cool drink together, for R6,75. The cool drink costs R2,25 more than the chocolate. How much does the chocolate cost on its own?



BONUS (FOR THOSE WHO FINISH EARLY AND HAVE CHECKED THEIR ANSWERS)

Find the digits that are represented by the letter T, W, O, F, U, R:

$$\begin{array}{r} \text{TWO} \\ +\text{TWO} \\ \hline \text{FOUR} \end{array}$$

Papers written by Steve Sherman