



NAME:

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PLEASE NOTE:

- Questions must be answered on the question paper in the blocks provided.
- The teacher may explain the instructions to the learners.
- You may **not** use a calculator.
- Learners may write as individuals or pairs
- Learners must print their names on the top of this paper.
- Have fun!

CASIO



Please circle the correct letter for questions 1-10 and fill the answers in the blocks provided for questions 11-25. Each question is worth 1 mark unless stated otherwise.

1) What number must be written in the \square to make the following number sentence true?

$$14 + \square = 31$$

- a) 17 b) 16 c) 15 d) 14 e) 13

2) What answer do you get when you double 49 and then halve it?

- a) 98 b) 44 c) 49 d) 48 e) 88

3) I am thinking of two numbers. When I add them I get 35. When I subtract one from the other, I get 11. What is the larger number?

- a) 24 b) 23 c) 32 d) 12 e) 11

4) Sam has 105 sweets. She eats 76 and gives away 13. How many sweets does she have left?

- a) 42 b) 167 c) 26 d) 49 e) 16

5) School starts at 8:40 a.m. It takes me 38 minutes to prepare for school, 15 minutes to pack my school bag and 15 minutes to walk to school. What time do I need to leave home to get to school on time?

- a) 8:35 a.m. b) 8:25 a.m. c) 7:35 a.m. d) 7:25 a.m. e) 7:45 a.m.

6) Which number is 9 times the sum of its digits?

- a) 63 b) 36 c) 18 d) 81 e) 72

7) I have tables that seat 6 children, tables that seat 5 children and tables that seat 3 children. What is the **minimum** number of tables I would need to seat 75 children?

- a) 12 b) 13 c) 14 d) 15 e) 16

8) I have a bag containing 24 coloured balls. The colours are red, green and blue. There are twice as many red balls as green balls and one more red ball than blue balls. How many blue balls are there?

- a) 10 b) 5 c) 7 d) 9 e) 12

9) Bella opens her book and looks at the page numbers at the bottom of both pages. If their product is 210, what is the page number on the left?

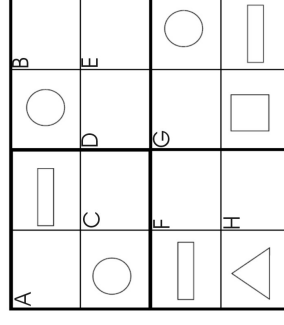
- a) 105 b) 106 c) 15 d) 14 e) 209

10) 7 monkeys take 7 minutes to eat 7 bananas (eating at the same rate). How many minutes would it take 4 monkeys to eat 4 bananas?

- a) 4 b) 5 c) 6 d) 7 e) 8

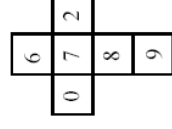
11) An old bike wheel has 21 spokes, how many spaces are there in between them?

12) In the Shape Sudoku below, you must use 4 rectangles, 4 triangles, 4 circles and 4 squares. Each column and each row must have one of each shape. Each block of four, outlined by heavy lines must also have one of each shape. Fill in the missing shapes from A to H in the diagram below.



(8 marks)

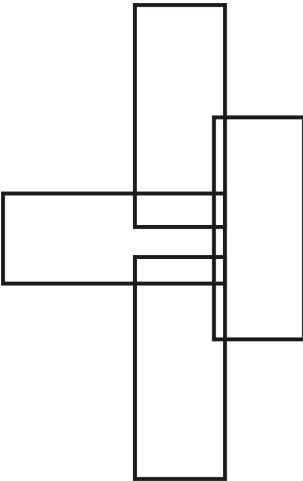
13) The faces of a number cube are labelled as shown below. What are the chances of rolling an even number?



14) What five-digit number has no zeroes, the second digit is three times the first, the third is one more than the second, the fourth is four times the first and the last digit is one and a half times the second?

15) What is the smallest of 4 consecutive numbers (numbers that follow in order) whose sum is 82?

16) Which number in place of # will make the number sentence below, true?
 $28 \div 4 = \# \div 20$

17) How many rectangles are in the diagram below?


18) Which two-dimensional shape has an infinite number of lines of symmetry?

19) What number comes next in the number pattern below?
 2; 1; $\frac{1}{2}$; $\frac{1}{4}$; ?

20) If
 $2^1 = 2$
 $2^2 = 2 \times 2 = 4$
 $2^3 = 2 \times 2 \times 2 = 8$
Calculate: $4^3 - 3^3$

21) $3 \spadesuit = 4 \heartsuit$ and $3 \clubsuit = 2 \heartsuit$.
 How many \heartsuit do you need to equal $12 \spadesuit$?

22) Calculate the following: $100 - 99 + 98 - 97 \dots \dots 5 + 4 - 3 + 2 - 1 = ?$

23) A zoo has some ostriches and some giraffes. Altogether they have 60 eyes and 88 legs. How many giraffes are in the zoo?

24) A sandwich and a drink cost R8.00 together. If the sandwich costs R4.00 more than the drink, how much does the drink cost?

25) If you write the digits 3, 2 and 4 in every possible order to form a 3-digit number (eg. 324), how many of these numbers will be divisible by 3?

Paper written by Steve Sherman

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