



NAME:

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PLEASE NOTE:

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



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

$$17 + \square = 66$$

2. What is the next number in the sequence below?

5; 12; 19; 26; ?

3. I have a mystery number. I subtract 5 and then add 10. I now have an answer of 23. What is my mystery number?

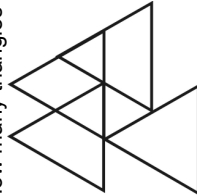
4. Which of these sums has the largest answer? [Write A, B, C, D or E in the block]

- (A) 5×4 (B) 2×9 (C) 12×1 (D) 25×0 (E) 7×3

5. School starts at 8:00 a.m. It takes 37 minutes to travel to school. What time do I need to leave home to get to school on time?

6. If I count 120 legs in a herd of sheep, how many sheep are in the herd?

7. How many triangles of different sizes are in the diagram below?



8. Elise has 21 sweets more than Dianne. If Dianne has 12 sweets, how many sweets do they have **altogether**?

9. At the local market you can buy 3 T-shirts for R18. How much will it cost to buy 8 T-shirts?

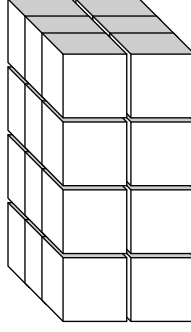
10. If today is a Friday, what day will it be 36 days from today?

11. There are 24 hours in a day, 7 days in a week and 52 weeks in a year. If a horse can eat 1 bale of hay in 1 day, how many bales of hay will he eat in a week?

12. Michelle arranges her coins into a pattern. How many coins will she put down next?



13. How many blocks in total would be needed to build 2 of the structures as seen in the picture below?



14. Thandi's mother gives her R100,00 to buy a school jersey, which costs R55,00. Thandi buys the jersey but she also spends R8,25 at the tuck shop and R12,60 at the cake sale. How much change does she have left for her mom?

15. Which weighs more, a kilogram of feathers, a kilogram of paper or a kilogram of rocks?

16. Which number is exactly halfway between 29 and 38?

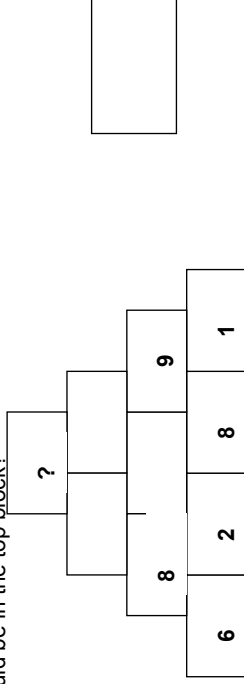
17. The principal called up 12 learners to receive an award for doing so well in the Living Maths Athletics Olympiad. Each learner came onto the stage and shook hands with the **principal**, the **vice principal**, the **special guest** and the **maths teacher**. How many handshakes took place in total?



18. Half of a class are girls and a quarter of these girls love ice cream. If 5 girls love ice cream, how many children are in the class?

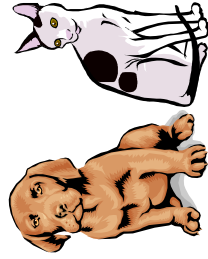
19. On Monday I do homework for 10 minutes. Each new day, I do homework for twice as long as I did the day before. Which day of the week will I do more than an hour of homework?

20. In the Addition Pyramid below, you can calculate the number in a block by adding the numbers in the two blocks below it. For example, 8 is created by $6 + 2$ and 9 is created by $8 + 1$. What number should be in the top block?



21. If even numbers are green and odd numbers are yellow, what colour is yellow + yellow?

22. Shakira weighs her dog and cat. The dog weighs exactly twice as much as the cat. Together they weigh 27 kg. How much does Shakira's dog weigh?



23. A carpenter cuts a thick plank into sections. If he charged R5,00 to cut the plank into 2 equal pieces, how much would he charge to cut the plank into 10 equal pieces?

24. Julie is 6 years old and David is 4 times older than her. How old will David be when Julie is 3 times her age?

25. A family has 9 children. They were all born 18 months apart. The oldest one (George) is 5 times older than the youngest one (Michael). How old is Michael?

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

If the 14 digits of a credit card number are designed where three digits in a row will always have a sum of 20. What is the value of **A**?

A	8									8			3
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Papers written by Steve Sherman

Colour in if you finish early

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