



This week we will be challenging the Grade 7 learners with a bit of MENTAL MATHS.

1. What are the next two numbers in the sequence? - 1; 6; 9 ; ___ ; ___
2. Complete the number sentence by calculating $x : 3 \times x - 4 = 23$
3. Calculate 70% of R150
4. What percentage is 60c of R5,20?
5. Write 1,6 as an improper fraction in the simplest form
6. Mpho travelled by car at an average speed of 60 kilometres per hour for $4\frac{1}{4}$ hours. Calculate how far she travelled.
7. Consider the following number sequence: 1 ; 4 ; 9 ; ___ ; 25 ; ___
 - a. Fill in the missing numbers of the above number sequence
 - b. Are the numbers in the above number sequence square numbers, prime numbers or cubic numbers
8. Calculate the perimeter of the rectangle if the length is 15 cm and the breath is 5 cm.
9. A mother is twice as old as her daughter. How old is the daughter if the mother 72 is years old?
10. The product of two prime numbers is 10. What is the difference between the two prime numbers?

MEMORANDUM

1. What are the next two numbers in the sequence? 1; 6; 9 ; **12 ; 15**
(Each number is multiplied by 3 therefore $3 \times n$)
2. Complete the number sentence by calculating $x : 3 \times x - 4 = 23$
 $23 + 4 = 27$
 $27 \div 3 = 9$
 $x = 9$
3. Calculate 70% of R150
 $\frac{70}{100} = \frac{7}{10}$
 $\frac{7}{10} \times R150 = R 105$
4. What percentage is 60c of R5,20?
 $R 5, 20 \div 10 = 520c$
 $60c \times 520c \times 100\% = 11.5\%$

5. Write 1,6 as an improper fraction in the simplest form

$$1,6 = \frac{16}{10}$$
$$= \frac{8}{5}$$

6. Mpho travelled by car at an average speed of 60 kilometres per hour for $4\frac{1}{4}$ hours. Calculate how far she travelled.

$$\text{Distance travelled} = 60 \text{ km/h} \times 4,5 \text{ h}$$
$$= 270 \text{ km}$$

7. Consider the following number sequence: 1 ; 4 ; 9; ___ ; 25 ; ___

a. Fill in the missing numbers of the above number sequence

16 and 36

b. Are the numbers in the above number sequence square numbers, prime numbers or cubic numbers

Square numbers

8. Calculate the perimeter of the rectangle if the length is 15 cm and the breath is 5 cm.

$$P = 2 (L + b)$$
$$= 2(15 + 5) \text{ cm}$$
$$= 40 \text{ cm}$$

9. A mother is twice as old as her daughter. How old is the daughter if the mother 72 is years old?

$$\text{Daughter's age} = \text{mothers age} \div 2$$
$$= 72 \text{ years} \div 2$$
$$= 36 \text{ years old}$$

10. The product of two prime numbers is 10. What is the difference between the two prime numbers?

$$5 \times 2 = 10$$
$$\text{Difference} = 5 - 2$$
$$= 3$$