



Mathematics

Year 6

MARCH EXAMINATION 2021

1 hr. 30 min

Additional Materials:

- Soft clean eraser
- Soft pencil (type B or HB recommended)

Read these instructions first

This paper contains 34 questions. Answer all questions in the spaces provided.

Do **not** use staples, paper clips, and glue or correction fluid.

Any rough working should be done in the rough work booklet provided.

NAME:

DATE:

SCORE:

TOTAL MARKS:

[Turn over]

1. Find two **prime numbers** that add up to: (2)

i. $\underline{\quad} + \underline{\quad} = 9$

ii. $\underline{\quad} + \underline{\quad} = 16$

2. Identify the pattern in the sequence and complete it. (2 mks)

i. 1,4,10,19,____,____

ii. 0,2,5,10,____,____

3. Find the difference between: (2mks)

i. 6 and -2

ii. -7 and -5

4. Solve: (3mks)

i. $-9 + -6 = \underline{\quad}$

ii. $-8 + 4 = \underline{\quad}$

iii. $-11 - -3 = \underline{\quad}$

5. Use < and > where appropriate. (3mks)

i. $-7 \underline{\quad} -5$

ii. $-3 \underline{\quad} -11$

iii. $0 \underline{\quad} -1$

6. Identify all prime numbers between 60 and 80 (3mks)

7. Identify the prime factors of 51. (2mks)

8. Write the following number in words. (2mks)

9,786,435.21

9. Identify the place value of 4 in: (2mks)

i. 95.54

ii. 984.12

10.



Identify the arrow that points to the number 50,000. (1mks)

Fill the blanks:

11. $35 \times 8 = \underline{\quad} \times 2$ (1mk)

12. $11 \times 16 = \underline{\quad} \times 4$ (1mk)

13. $25.24 \times 2.5 = \underline{\quad}$ (2mks)

14. $12.1 \div 1.1 = \underline{\quad}$ (2mks)

15. $5.25 \times 2 = \underline{\quad}$ (1mks)

16. $8.4 \div 0.2 = \underline{\quad}$ (2mks)

17. $4.2 \times 0.2 = \underline{\quad}$ (2mks)

18. $4.4 \times 0.5 = \underline{\quad}$ (2mks)

19. $0.24 \div 0.4 = \underline{\quad}$ (2mks)

20. $2460 \div 100 = \underline{\quad}$ (2mks)

21. Using a ruler and a protractor, draw a right angled triangle with a base of length 4cm and a height of length 3cm and measure the length of the hypotenuse. (3mks)

22. A train ticket to Mombasa costs ksh 1000 per adult and ksh 800 per child. How much would it cost Mr. Timothy to take his wife and 3 children to Mombasa via train? (3mks)

23. Which is larger (2mks)

$$\frac{4}{5} \text{ or } \frac{7}{9}$$

24. Calculate and simplify the answer. (2mks)

$$\frac{3}{8} \div \frac{4}{8} =$$

25. An airplane took off from Nairobi to Lagos at 8pm on Tuesday 13/2/2021 .If it was a 36 hour flight calculate the time which the plane landed giving; **(4mks)**

- i. the exact time
- ii. Day and date

26. What time does the clock read? **(2mks)**



27. Calculate the G.C.D and L.C.M of 24,36 and 48 **(2mks)**

28. Convert the following fractions to decimals. **(4mks)**

- i. $\frac{4}{5}$
- ii. $\frac{2}{3}$

29. Hailey's mum brought home 20 oranges, Hailey took two, mum took 3, dad took 3 and the rest was left over for the next day. What percentage of oranges was left over the next day?

(2mks)

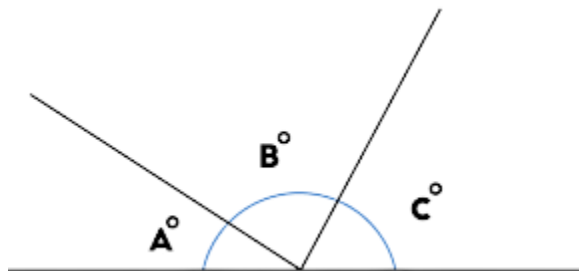
30. Jermaine ran a marathon in 8100 seconds. If he began at 11.15 am, what time did he finish?

Give your answer in : (4mks)

- i. 12 hour clock system
- ii. 24 hour clock system

31. Calculate $0.5 + 2.7 + \frac{3}{5} = \underline{\hspace{2cm}}$ (3mks)

32. If angle A = 30° and C = 65° , calculate angle B and state the guiding principle (3mks)



33. Write $\frac{12}{48}$ in its simplest form (2mks)

34. Calculate the **area** and **perimeter** of the diagram given below. (3mks)

