

STUDY GUIDE

Answer all Questions

N/B: The use of calculator and phones are not allowed in the examination hall.

TIME: 45 minutes

YEAR 8

1. Simplify $2b + (3b - 4c)$ (a) $5b - 4c$ (b) $6b^2 - 8bc$ (c) $2b - 7bc$ (d) $8b + 3c$
2. Simplify $30pq \div 6$ (a) $5pq$ (b) $15pq$ (c) $35pq$ (d) $12pq$
3. Express ~~N~~4, 000, 000 as a mixture of digits and words (a) ~~N~~4 billion (b) ~~N~~4 million (c) ~~N~~40 billion (d) ~~N~~4 thousand
4. The product of a number multiplied by itself is 169. Find the number (a) 13 (b) 169 (c) 140 (d) 150
5. The sum of 3hrs 40mins, 2hrs 25mins, 28mins and 1hr 35mins in hours and minutes is ____ (a) 4hrs 10mins (b) 8hrs 8mins (c) 16hrs 10mins (d) 12hrs 5mins
6. What day of the week will it be in 160 days, if today is Wednesday? (a) Monday (b) Wednesday (c) Tuesday (d) Saturday
7. Change the Roman Numeral MCMLXXXIV to number (a) 1944 (b) 1844 (c) 1984 (d) 1985
8. The sum of two numbers is twice the third number. If the two numbers are 11 and 17, find the third number (a) 3 (b) 6 (c) 11 (d) 14
9. A fraction with higher denominator than the numerator is called _____ (a) Proper Fraction (b) Mixed Fraction (c) Equivalent Fraction (d) Improper Fraction
10. Express 0.000000000347 in standard form (a) 47×10^{-10} (b) 3.47×10^{-9} (c) 3.47×10^{-8} (d) 3.47×10^{-10}
11. Simplify $x^6 \div x^3$ (a) x^5 (b) x^4 (c) x^3 (d) x^2 (e) x^9
12. Express 0.25 in percentage (a) 25% (b) 30% (c) 40% (d) 35%
13. The ratio of 5:25 in lowest term is (a) 5:20 (b) 1:5 (c) 10:25 (d) 1:10
14. Reduce 75 by 15% (a) 63.75 (b) 56.25 (c) 11.25 (d) 10.35
15. Which of the fractions is equivalent to $\frac{1}{2}$? (a) $\frac{3}{5}$ (b) $\frac{1}{4}$ (c) $\frac{6}{12}$ (d) $\frac{1}{6}$

16. A metal rod is 21 inches long. What is its length in centimeters, if 1 inch = 2.5cm? (a) 8cm (b) 53cm (c) 76cm (d) 533cm
17. What is the H.C.F of 45, 60, and 150? (a) 9 (b) 10 (c) 12 (d) 15
18. Evaluate $(0.7 - 0.3)$ $(0.7 + 0.3)$ (a) 4.0 (b) 2.1 (c) 1.0 (d) 0.40
19. If $p = 2$, $r = 3$ and $s = 6$, find the value of $2p + r + s$ (a) 7 (b) 13 (c) 10 (d) 11
20. How many hours are there in 4 days and 17hrs? (a) 117hrs (b) 113hrs (c) 103hrs (d) 98hrs
21. The approximate distance between two villages is given as 11km. if the actual distance is 10.7km, find the difference in meters (a) 200m (b) 300m (c) 150m (d) 350m
22. What is the smallest number that can be divided exactly by 3, 7 and 9? (a) 64 (b) 63 (c) 126 (d) 30
23. How many 250g of sugar can be obtained from 3.25kg? (a) 10.9 (b) 13.0 (c) 42.5 (d) 18.0
24. Change 3km, 45m to metres (a) 345m (b) 300m (c) 3045m (d) 30045m
- A two litre bottles is $\frac{7}{10}$ full, how many more milliliters will be required to completely fill the bottle? (a) 700ml (b) 500ml (c) 450ml (d) 600ml