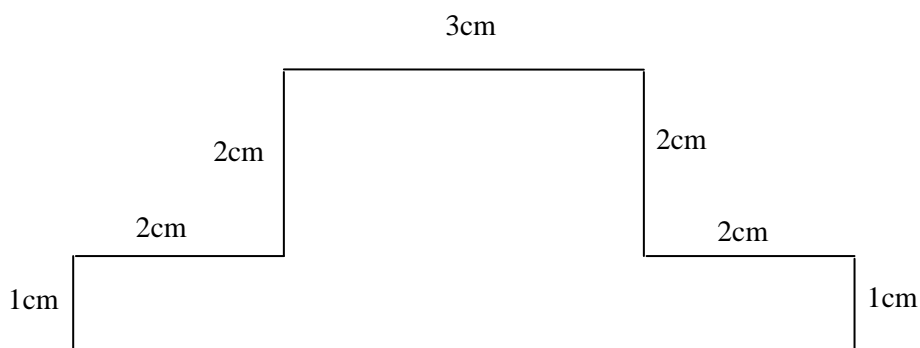


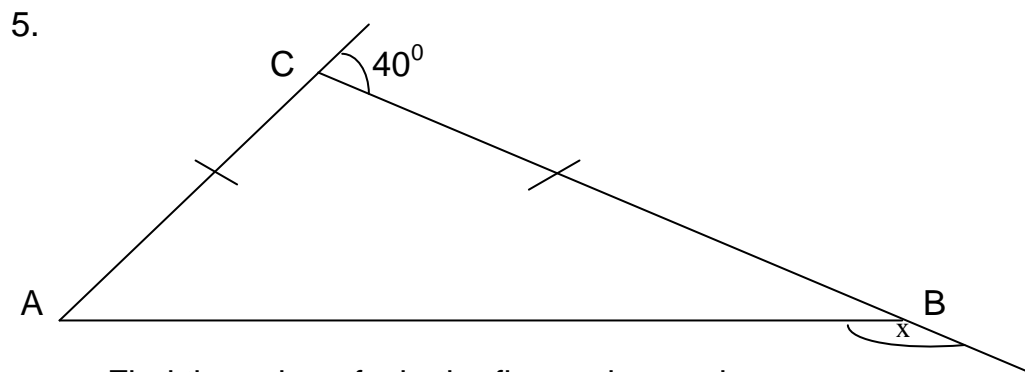
SUBJECT: MATHEMATICS

This section will last for 30 minutes

1. The larger angle between the hands of a clock at 10:30a.m. is
(a) 105° (b) 195° (c) 210° (d) 225°
2. Given that $a + b = 4$; evaluate $2a + b + b$
(a) 16 (b) 8 (c) 6 (d) 5
3. Find the perimeter of the model shown below in metre



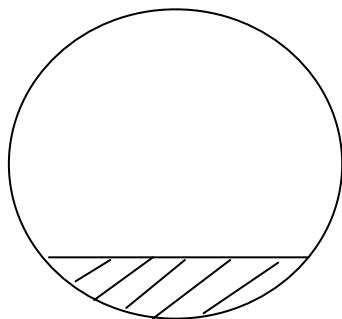
- (a) 2m (b) 1m (c) 0.5m (d) 0.2m
4. If $a = \sqrt{4 \times 9 \times 16}$, find the value of a
(a) 16 (b) 24 (c) 36 (d) 48



Find the value of x in the figure shown above

- (a) 20° (b) 70° (c) 140° (d) 160°
6. A nurse is paid N4000 for a 10-day job. What will be her pay for x days?
(a) $\frac{N4000}{x}$ (b) $N400x$ (c) $\frac{N400}{x}$ (d) $N4000x$

7. Find the sum of LXXIV, MXXIV, CXXIV and XXIV
 (a) MCCXLIV (b) MCCXLVI (c) MCCLXIV (d) MCCLXV
8. A rectangular room 6m long and 4m wide contains 72m^3 of air. Calculate the height of the room.
 (a) 36m (b) 24m (c) 18m (d) 3m
9. The shaded part in the figure below is called



- (a) chord (b) sector (c) arc (d) segment
10. A father is 25 years older than his son. If the sum of their ages is 53, find the age of the son.
 (a) 14 (b) 28 (c) 39 (d) 78
11. If $a \Delta b = a + b - ab$; evaluate $3 \Delta 5$
 (a) -7 (b) 7 (c) -8 (d) 8
12. A running water tap fills $\frac{3}{5}$ of a bowl in 18 minutes, how long will it take to fill $\frac{1}{3}$ of the bowl at the same time
 (a) 20 minutes (b) 10 minutes (c) 15 minutes (d) 12 minutes
13. If $p^2 - q^2 = (p+q)(p-q)$, calculate $121^2 - 79^2$
 (a) 9559 (b) 8404 (c) 8400 (d) 4202
14. A plane left city X at 3:45a.m. and arrived at city Y at 4:10p.m. on the same day; how long did the flight take?
 (a) 10hrs 25 mins (b) 11hrs 25 mins (c) 12hrs 25 mins
 (d) 13hrs 25 mins
15. Divide N5020 between Becky and Terry such that Becky gets N500 more than Terry. What amount does Terry get?
 (a) N2206 (b) 2260 (c) N2602 (d) N2620

16. If the length of a diagonal of a square is 6cm, what is the area of the square?
 (a) 18 (b) 12 (c) 24 (d) 36
17. A telephone call of three minutes duration cost N100.00. Each additional minute costs N50.00. What will a telephone call of 17 minutes duration cost?
 (a) N700 (b) N850 (c) N800 (d) N750
18. A circular wire ring has a diameter of 14cm, what is the length of the wire and leave your answer in terms of π
 (a) $7\pi\text{cm}$ (b) $10\pi\text{cm}$ (c) $12\pi\text{cm}$ (d) $14\pi\text{cm}$
19. Find the average of the following: 5p, 2p, 6p and 3p
 (a) 4p (b) 3p (c) 5p (d) 16p
20. Find the median of 8.3, 11.3, 9.4, 13.8, 12.9, 10.5
 (a) 11.3 (b) 11.1 (c) 10.9 (d) 10.5
21. If $2! = 2 \times 1$
 $3! = 3 \times 2 \times 1$
 $4! = 4 \times 3 \times 2 \times 1$
 Find the value of $\frac{5!}{4!}$
 (a) 5 (b) 10 (c) 24 (d) 120
22. Two angles of $\triangle PQR$ are 64° and 52° . Calculate the third angle of $\triangle PQR$. Hence deduce the kind of triangle it is
 (a) equilateral triangle (b) scalene triangle (c) right –angles triangle
 (d) isosceles triangle
23. Find the value of $\sqrt{\sqrt{36} - \sqrt{4}}$
 (a) 2 (b) 3 (c) 4 (d) 6
24. Find the mode of the following numbers 4,4,5,4,3,6,5,7,8,4
 (a) 6 (b) 5.5 (c) 5 (d) 4
25. Simplify $13f - 22f + 4f - 3f + 10f$
 (a) $4f$ (b) $3f$ (c) $2f$ (d) f