



Annual Examinations for Secondary Schools 2022

YEAR 9

MATHEMATICS
Non-Calculator

TIME: 30 minutes

Question	1	2	3	4	5	6	7	Total
Mark								

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

Instructions to Candidates:

- Answer ALL questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are NOT ALLOWED.
- All necessary working must be shown.

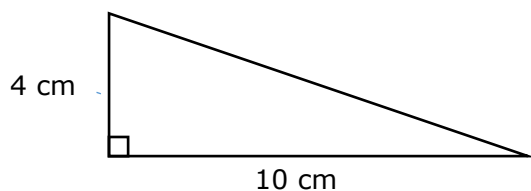
1. Write the next two numbers for each of the following:

(a) 149, 147, 145, 143, 141, _____ , _____ .

(b) 2, 4, 7, 11, 16, _____ , _____ .

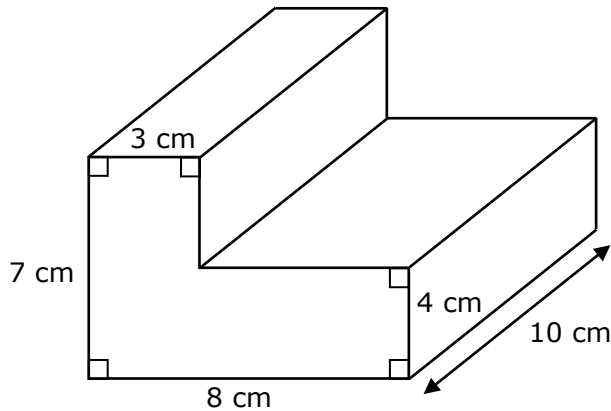
(2 marks)

2. (a) Work out the area of this triangle.



Ans: _____ cm²

(b) Work out the volume of this solid shape.



Ans: _____ cm³

(5 marks)

3. A man takes 2 hours to run 26 km.
Calculate his speed?



Ans: _____ km/hr

(2 marks)

4. (a) Complete:

(i) $\frac{3}{4} = \frac{\boxed{}}{20}$

(ii) $\frac{4}{5} = \frac{\boxed{}}{20}$

(b) Using your answers to part (a), write the following fractions in order of size, smallest first.

$$\frac{4}{5}, \frac{1}{2}, \frac{3}{4}, \frac{1}{5}$$

Ans: _____, _____, _____, _____

(4 marks)

5. Work out:

(a) $10 - (-7) = \underline{\hspace{2cm}}$

(b) $(-3 + 5) + 6 \times 3 = \underline{\hspace{2cm}}$

(c) $52 \times 24 = \underline{\hspace{2cm}}$

(d) $4530 \div 3 = \underline{\hspace{2cm}}$

(5 marks)

6. (a) Find the value of $3a + 5b - 7c$ given that $a = 6$, $b = 0$ and $c = 2$.

Ans: _____

- (b) Expand: $3(x - 7)$

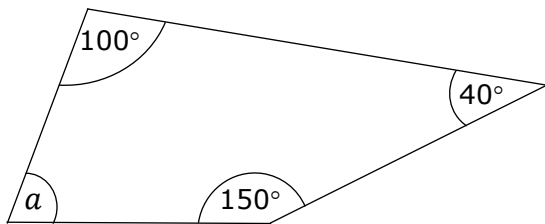
Ans: _____

- (c) Simplify: $7x - 3y - 2x + 4y$

Ans: _____

(5 marks)

7. Work out the value of angle a in this quadrilateral.



Ans: $a =$ _____[°]

(2 marks)

END OF NON-CALCULATOR PAPER