

1) How many axis of symmetry are there in an equilateral triangle.
2) Write down the centrury to which the day of 2019.07 .20 belongs.
3) If 900 ml of water is used from $2 l 750 \mathrm{ml}$. Find the remaining amount of water in ml .
4) Write the next two terms of the number pattern $3,1,-1,-3,-5$, $\qquad$
5) Simplify $4 x+3-2 x-6$
6) Find the perimeter of this triangle.

7) The mass of the lorry is 62.58 t. If $8 t$ flour is loaded into the lorry. Find the total mass.
8) If 375 students are boys out of 500 students in a school. Find the percentage of girls.
9) PQ is a straight line If $\mathrm{a}=70^{\circ}$

Find the magnitude of $b$ and $c$.
10) Write 0.125 as fraction and simplest form

11) Remove the brackets and simplify. $3(2 a+b)-2(2 a-b)$
12) If 4 students are represented by the symbol

Indicate 18 students in the picture graph.
13) Find the value of $48 \div 0.8$
14) Write the two platonic solids which has a triangular faces.
15)

area of square is $64 \mathrm{~cm}^{2}$
Area of rectangle is $60 \mathrm{~cm}^{2}$
Write the difference between the length of the above figures.
16) Find the value of $8-(-2)+3$
17) Factorise $c(a-b)-d(a-b)$
18) Solve : $3 \mathrm{a}-1=5$
19) Fill in the cage.
 : 15
20) Find the value of $\sqrt{8 \times 8 \times 8 \times 3}$

## PART - II

## Answer the first question and any other four questions.

1) 



The above activities I , II are done by angles of triangle and quaderilateral.
i) From the activity I, which is the sum of the interior angles of triangle.
ii) From the activity II which is the sum of the interior angle of quadrilateral.
iii) Find the sum of interior angle of a pentagon ABCDE from the conclusion of question (I) by connect the vertices $\mathrm{C}, \mathrm{D}$ with A .
iv) a) Find the magnitude of $x$.

b)

c) Find the magnitude of $x$ and $y$
v) PQRS is a regular polygon. If $\mathrm{PQ}=10 \mathrm{~cm}$. Find the area of RS .
2) a) i) Write the general terms of the number pattern is $5,8,11,14$,
ii) Which is the 20th term.
b) Simplify
i) $1.43 \times 5.2$
ii) $76.85 \div 10$
iii) $76.85 \div 100$
iv) If A packet of toothpaste weight is 70.6 g . Find the weight of 12 such packets.
3) a) Solve : $4+\frac{x}{5}=7$
b) i) Find the perimeter of this rectangle in the terms of $x$
ii) If the perimeter of rectangle is 40 cm . Find the value of $x$ and then find the length and breadth.
c) $\mathrm{A}=\{$ Prime numbers less than 10$\}$

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2 x-3
$$


i) Write the elements of $\operatorname{set} \mathrm{A}$.
ii) Find $n(A)$
iii) Fill in the suitable symbol from $\in \notin$ in the blank 6 $\qquad$ A
4) Simplify:
a)
i) $\frac{1}{3}+\frac{2}{5}$
ii) $4-2 \frac{1}{8}$
iii) $\frac{2}{5} \times 1 \frac{1}{4}$
iv) $\frac{5}{8} \div 1 \frac{3}{5}$
b) If $1 \frac{1}{4} m$ cloth is needed to sew a pair of trousers for a student. Find the number of pair of trousers that can be sawn from 50 m cloth.
5) a) Fractorise
i) $81-3 a^{2}$
ii) $7 \mathrm{a}^{2} \mathrm{~b}-3 \mathrm{ab}+2 \mathrm{ab}{ }^{2}$
iii) Write $81 x^{2}-36$ as difference of two squares.
b) If $a=2, b=-1$ find the value of $a^{2}+2 a b$
c) i) Writre $4^{3}$ as a power of 2
ii) Write $4^{3} \times 3^{6}$ as a power of product

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(2+2+2+2+1+2)
$$

6) i) Find the magnitude of a
ii) Find the magnitude of $x$

iii) Find the magnitude of p and q


ii) The cost price of a clock is Rs.2000. If A trader sells with a profit of $15 \%$ Find the selling price.
iii) In a certain number of oranges, If $75 \%$ number of orange is 54 . Find the total number of oranges.
b) In the mixture the ratio of cement and gravel is 1:4 and the ratio of gravel and sand 3:2
i) Find the ratio between cement gravel and sand
ii) Find the quantity of cement gravel and sand in the mixture of 92 pans.
