



# WISDOM WORLD SCHOOL, KURUKSHETRA

## Wisdom Aptitude Test (WAT)

for

### Admission to Grade VIII (Aadhar Batch)

Date : 15 January 2023 | Time : 10:30 am to 12:30 pm

### PATTERN OF WAT

Multiple choice questions with single correct option type.  
Each question carry 2 marks and there is no negative marking.

### Syllabus for WAT (Grade VIII)

<b>Science</b>	Acids, Bases and Salts, Respiration in Organisms, Transportation of Substances, Time and Motion
<b>Mathematics</b>	Integers, Powers and Exponents, Algebraic Expressions, Simple Linear Equations, Perimeter and Area, Lines and Angles, Properties of Triangles, Comparing Quantities
<b>Reasoning</b>	<b>Verbal :</b> Number and Alphabet Series, Alphabet Test, Coding-Decoding, Direction Sense Test, Blood Relations, <b>Non-Verbal :</b> VENN Diagram, Counting of Figure, Water & Mirror Images

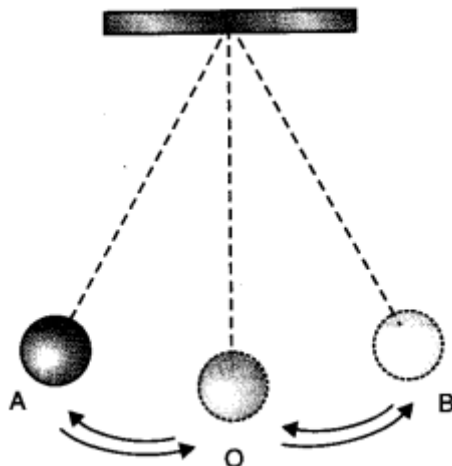
### Marking Scheme

Subjects	No. of Questions	Total Marks
Science	20	40
Mathematics	25	50
Reasoning	15	30
<b>Total</b>	<b>60</b>	<b>120</b>
<b>Time Allowed : 2 hours</b>		

## Sample Questions for WAT (Grade VIII)

### SCIENCE

- The complete site of digestion of food is:  
(a) Stomach                      (b) Small intestine              (c) Large intestine              (d) Esophagus
- Which of the following statements is/are true about complete parasitic plants?  
(i) They completely depend on the host plant for their survival.  
(ii) They have chlorophyll and can prepare their own food.  
(iii) They have special root like structure called haustoria.  
(iv) They draw nutrition from tissues of host plant.  
(a) Both (i) and (ii)              (b) (i), (iii) & (iv)              (c) Both (i) & (iii)              (d) Both (i) & (iv)
- What is the pH range of tomato?  
(a) 5.5-7.5                      (b) 5.5-8.5                      (c) 4.5-5.5                      (d) 6.0-7.5
- Identify the type of respiration from below given equation:  
 $C_6H_{12}O_6 \rightarrow 2C_3H_6O_3 + \text{Energy}$   
(a) Aerobic respiration              (b) Fermentation  
(c) Anaerobic respiration              (d) Respiration during lack of  $O_2$
- What is another name of platelets?  
(a) Erythrocytes              (b) Leucocytes              (c) Thrombocytes              (d) Lymphocyte
- Kanak and Sagar were given one mirror each by their teacher. Kanak found his image to be erect and of the same size whereas Sagar found her image erect and smaller in size. This means that the mirrors of Kanak and Sagar are, respectively  
(a) plane mirror and concave mirror              (b) concave mirror and convex mirror  
(c) plane mirror and convex mirror              (d) convex mirror and plane mirror
- If an object is placed at a distance of 0.5 m in front of a plane mirror, the distance between the object and the image formed by the mirror will be  
(a) 2 m                      (b) 1 m                      (c) 0.5 m                      (d) 0.25 m
- Observe the figure given below:



The time period of a simple pendulum is the time taken by it to travel from

(a) A to B and back to A

(b) O to A, A to B and B to A. Observe the figure given below:

*The time period of a simple pendulum is the time taken by it to travel from*

(a) A to B and back to A

(b) O to A, A to B and B to A

(c) B to A, A to B and B to O

(d) A to B

9. The absorption of nutrients and exchange of respiratory gases between blood and tissues takes place in:

(a) veins

(b) arteries

(c) heart

(d) capillaries

10. Which mark is necessary on electric appliances?

(a) AGMARK

(b) ISI

(c) FICCI

(d) KSK

## MATHEMATICS

11. An elevator descends into a mine shaft at the rate of 6m/min. What will be its position after one hour? If it begins to descend from 20m above the ground.

(a) 360m above the ground

(b) 340m under the ground

(c) 380m under the ground

(d) none of these.

12. If  $9^{x+5} = 27^x$ , then find  $x$ .

(a) 5

(b) -5

(c) 10

(d) -10

13. Which is the suitable equation for the given solution  $x = -3$

(a)  $15x = -5$

(b)  $\frac{4x}{5} = -4$

(c)  $17x = -51$

(d) none of these

14. Find the value of  $y$ :  $\frac{y}{5} + \frac{y}{15} = y - 11$

(a) 15

(b) -15

(c) -25

(d) 25

15. 30% of  $(x - 50) = 150$ , then find  $x$ :

(a) 250

(b) 550

(c) 750

(d) 450

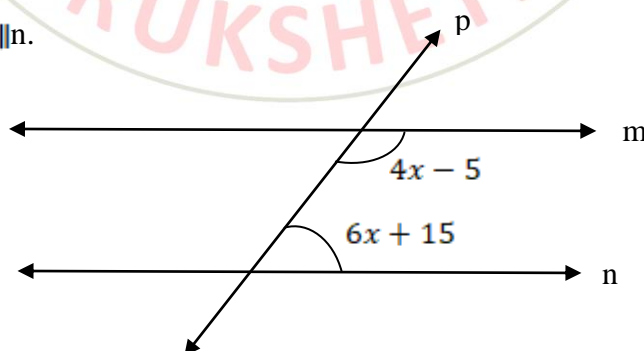
16. Find the value of  $x$  if  $m \parallel n$ .

(a) 19

(b) 18

(c) 17

(d) 12



17. A 17 m long ladder exactly reaches a window 15 m high from the ground when placed against a wall. Find the distance between the foot of the ladder and the wall.

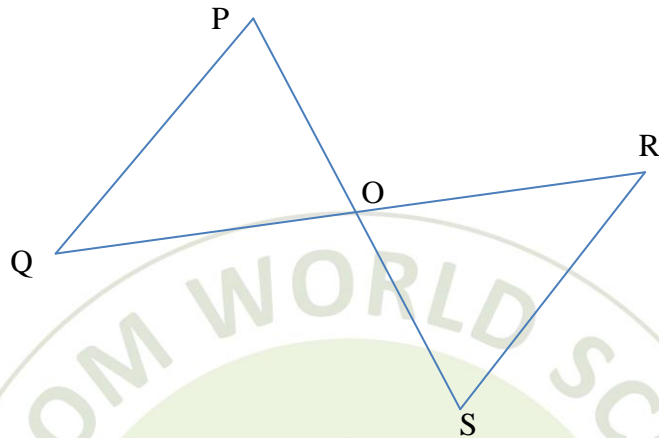
(a) 25m

(b) 8m

(c) 7m

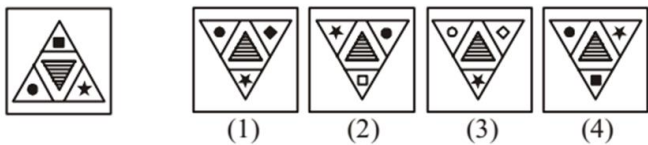
(d) 16m

18. The exterior angle of a triangle is  $110^\circ$  and one of the interior opposite angles is  $30^\circ$ . The measure of the other interior opposite angle is \_\_\_\_\_.
- (a)  $30^\circ$                       (b)  $40^\circ$                       (c)  $80^\circ$                       (d)  $60^\circ$
19. Two figures are congruent if they have the
- (a) same shape                      (b) same size  
(c) different shapes                      (d) same shape and same size
20. In the given figure,  $PQ = RS$  and  $PQ \parallel RS$ .  $\Delta POQ$  and  $\DeltaSOR$  are congruent by
- (a) RHS                      (b) AAS                      (c) SSS                      (d) SAS



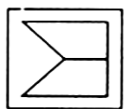
**(REASONING)**

21. You are required to choose the correct alternative which resembles the water-image of the given word/number/figure.

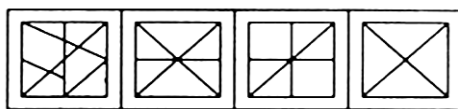


22. How many such pair(s) of letters are there in the word 'POCKETBOOK' which have as many letters between them as in the alphabetical series?
- (a) One                      (b) Two                      (c) Three                      (d) Four
23. Arrange the following words according to the dictionary.
1. Critical                      2. Criterion                      3. Crisis                      4. Crisp
- (a) 3,4,2,1                      (b) 1,3,4,2                      (c) 3,4,1,2                      (d) 4,3,1,2
24. Pointing to a man on the stage , Rita said “ He is the brother of daughter of the wife of my husband”. How is the man of stage related to Rita?
- (a) Son                      (b) Husband                      (c) Cousin                      (d) Nephew
25. What is the next letter in the series CNL, BLI, AJF, ZHC, \_\_\_\_\_ ?
- (a) XDY                      (b) YFZ                      (c) YFA                      (d) XFY
26. Complete the series :  $m \_ nm \_ n \_ an \_ a \_ ma \_$
- (a) aamnan                      (b) ammanm                      (c) aammnn                      (d) amammn

27. Vijayan started walking towards South. After walking 15 m, he turned to the left and walked 15 m. He again turned to his left and walked 15 m. How far is he from his original position and in which direction?  
 (a) 15 m, North            (b) 30m, East            (c) 15 m, West            (d) None of these
28. In a certain code language, 639 means 'wood is hard', 657 means 'fur is soft', 135 means 'hard or soft'. Find the code for 'or'.  
 (a) 4                            (b) 1                            (c) 6                            (d) 3
29. Which two of the following numbers comes in the next in the following sequence.  
 61, 57, 50, 61, 43, 36, 61, .....
- (a) 29, 61                    (b) 29, 20                    (c) 29, 22                    (d) 31, 61
30. Here we have a figure named X. The task is to find X in the other four images. Find out the correct answer.



(x)



(a)

(b)

(c)

(d)

