# Entry Test 47 Answer Key to Class: 8

#### **ENGLISH**

1.	(A)	Correct Spellings	▲ duplicate	volunteer
	(B)	Meanings	🗚 known, close, انا پېچانا	ج
			رکنا ,stop, end	
			🗚 important, notable, اہم	
	(C)	Opposites	slavery	supply
		<b>Word Family</b>	admiration	impressive

fair, fare

## 2. (A) Complete Sentences

(D)

Pair of Words

- △ Some of the books on the shelf **are** dusty.
- △ **Does** he still work at the factory?
- △ This popular book **is issued** weekly.
- △ Look, the sun **is rising** over the hills
- △ The teacher was looking **for** some gifts to distribute **among** the students.
- △ He is **not only** intelligent **but also** hard working.
- △ The minister has constituted **a** one-man committee to control **the** increase in prices.

dairy, diary

### (B) Do as Directed.

- ▲ Is my sister buying a new dress for herself?
- △ The gardener has taken care of the plants.
- △ The zebra was attacked by the lion in the forest.
- △ The teacher told the student that she might complete her work.

#### 3. Sentence Formation

### 4. Translation

- △ He cuts/trims/clips nails every Friday.
- All of the students have not learned their lesson.

### 5. Paragraph

△ The Personality I Like the Most

## **ADMISSION TEST TO GRADE: 8 SCIENCE KEY**

## Q. 1. Choose the best option.

- (i) D
- (ii) A
- (iii) A
- (iv) D
- (v) A
- (vi) D

## O. 2 Fill in the blanks.

- (i) third
- (ii) solid
- (iii) convection
- (iv) Combustion (v) drying (vi) taproot

## Q. 3 True/False

- (i) F
- (ii) T
- (iii) T
- (iv) F
- (v) F
- (vi) F

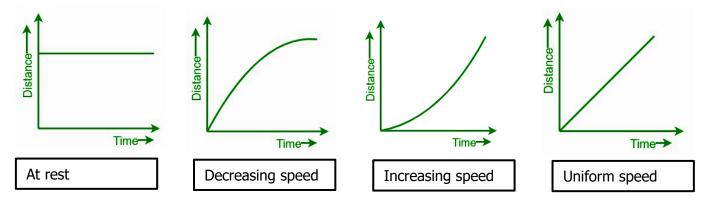
## Q. 4 Answer the following questions.

- In transpiration, water is lost from the stomata in the leaf. As the water evaporates from the leaves, more is pulled up through the xylem to replace it. The main force which draws water up the plant is called transpiration pull.
- (ii) Right atrium: It receives oxygen-poor (deoxygenated) blood from the body and pumps it to the right ventricle. Left atrium: Receives oxygen-rich (oxygenated) blood from the lungs and pumps it to left ventricle.
- (iii) Increase in temperature: decrease in the solubility. Increase in pressure: increase in solubility.
- (iv) Hydrogen atom has 1e which is present in K shell and requires one more to get stable. It shares one electron with another hydrogen atom. By sharing, each hydrogen atom attains noble gas configuration of Helium. As a result hydrogen molecule is formed in which an electron pair is shared and a covalent bond is formed.

(v)

(V)		
	CONDUCTION	RADIADION
	•	Method of heat transfer from a hot
	to cold body by vibrations of particles.	place to a cold place with or without having a material medium in between,
		in the form of electromagnetic waves.

(vi) Interpretation of distance-time graphs.



#### **MATHEMATICS-8**

## **ANSWER KEY**

- **1.** (i) diameter
  - (ii) -1
- (iii) 3 (iv) 16
- 2.  $A = \{b, a, g\}, B = \{a, e, i, o, u\} \& C = \{a\}$

L.HS:  $A \cap (B \cap C)$  $B \cap C = \{a, e, i, o, u\} \cap \{a\} = \{a\}$ 

$$A \cap (B \cap C) = \{b, a, g\} \cap \{a\} = \{a\}$$

As L.H.S = R.H.S

So 
$$A \cap (B \cap C) = (A \cap B) \cap C$$

3.  $4m^2-25n^2=(2m)^2-(5n)^2$ 

As 
$$a^2 - b^2 = (a + b) (a - b)$$

$$4m^2-25n^2 = (2m)^2 - (5n)^2 = (2m + 5n)(2m - 5n)$$

4. Area of circle =  $\pi$  r<sup>2</sup>

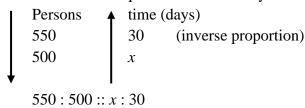
$$=(3.14)(50m)^2$$

- $= (3.14) (2500) \text{m}^2$
- $= 7850 \text{m}^2$
- 6. Method # 1:

Remaining persons = 550 - 50 = 500

1 month = 30 days

Let x be the required number of days



$$550 \times 30 = 500 \times x$$

$$\frac{550\times30}{500}=x$$

$$\frac{55\times3}{5} = 3$$

$$x = 11 \times 3 = 33$$

So food will be last for 33 days.

7. diameter = 49cm

Circumference = 
$$\pi d$$

$$=\frac{22}{7}\times49$$
cm

$$=22 \times 7$$
cm

= 154 cm

Total distance covered by circular object = number of rounds  $\times$  Circumference

 $770cm = number of rounds (revolutions) \times 154cm$ 

$$\frac{770cm}{154cm}$$
 = number of rounds

number of rounds= 
$$\frac{110}{22}$$
 =  $\frac{10}{2}$  = 5

RHS: 
$$(A \cap B) \cap C$$
  
 $A \cap B = \{b, a, g\} \cap \{a\} = \{a\}$   
 $(A \cap B) \cap C = \{a\} \cap \{a\}$ 

5. 
$$\left(\frac{2x}{3} + 3y\right)^2$$
  
As  $(a+b)^2 = a^2 + 2ab + b^2$   
 $\left(\frac{2x}{3} + 3y\right)^2 = \left(\frac{2x}{3}\right)^2 + 2\left(\frac{2x}{3}\right)(3y) + (3y)^2$ 

 $=\frac{4x^2}{\alpha}+4xy+9y^2$ 

## **Method # 2:**

Remaining persons = 550 - 50 = 500

Let *x* be the required number of months

Persons time (month)

 $\begin{bmatrix} 1 \\ x \end{bmatrix}$ 

(inverse proportion)

550 : 500 :: *x* : 1

$$550 \times 1 = 500 \times x$$

$$\frac{550 \times 1}{500} = \chi$$

$$\frac{550}{500} = x$$

$$x = 1.1$$

so food will last for 1.1 months.

**8**. Area of Square shaped garden= 4096m<sup>2</sup>

As Area of square = 
$$l^2$$

$$l^2 = 4096 \text{ m}^2$$

Taking square root on both sides

$$\sqrt{l^2} = \sqrt{4096m^2}$$

so 
$$l = \sqrt{4096} \, m$$

Method#1

$$= 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

So length of each side is 64 m

Perimeter = 
$$4 \times l$$

$$=4\times64$$
 m

$$= 256 m$$

So length of fence is 256 m

