

**ARMY PUBLIC SCHOOL SHILLONG**  
**ANNUAL EXAMINATION:2022-23**  
**CLASS: IV**  
**SUBJECT: MATHEMATICS**

*Time: 2Hrs 30Mins*

*Maximum Marks: 80*

**General instructions:**

- i) Read all questions carefully.**
- ii) Write your answers clearly.**
- iii) Number the answers correctly.**
- iv) Attempt all questions.**

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- 1 Choose the correct option: (1x20=20)**
- a) Which of the following is a proper fraction:  
i)  $\frac{1}{5}$       ii) 8      iii)  $\frac{7}{6}$
- b) The unit fraction among the following is :  
i)  $\frac{5}{6}$       ii)  $\frac{3}{8}$       iii)  $\frac{1}{9}$
- c) The improper fraction for  $4\frac{5}{6}$  is  
i)  $\frac{23}{4}$       ii)  $\frac{5}{6}$       iii)  $\frac{29}{6}$
- d) The place value of 5 in 23.05 is  
i) Ones      ii) Tenths      iii) Hundredths
- e) Select the correct symbol for 90.38 \_\_\_\_\_ 89.98  
i) >      ii) <      iii) =
- f) 5 hundredths is written as  
i) 500      ii)  $\frac{1}{500}$       iii)  $\frac{5}{100}$
- g) The \_\_\_\_\_ is the longest chord of the circle  
i) Radius      ii) Chord      iii) Diameter
- h) The \_\_\_\_\_ is a line segment joining any two points on the circle.  
i) Chord      ii) Radius      iii) Centre
- i) The \_\_\_\_\_ is the outer boundary of the circle.  
i) Circle      ii) Circumference      iii) Centre

- j) The radius is \_\_\_\_\_ the diameter  
 i) half      ii) one-fourth      iii) Three- fourth
- k) Perimeter of a square = \_\_\_\_\_ x side (1x10=10)  
 i) 2      ii) 3      iii) 4
- l) Perimeter of a rectangle = \_\_\_\_\_(Length + Breadth)  
 i) 2      ii)3      iii) 4
- m) The polygon having 5 sides is called \_\_\_\_\_  
 i) Triangle    ii) Pentagon      iii) Hexagon
- n) The short hand in a clock shows the\_\_\_\_\_  
 i) Seconds    ii) Minutes      iii) Hours
- o) 3 hours = \_\_\_\_\_ minutes  
 i) 120      ii) 180      iii) 60
- p) In a day the hour hand takes \_\_\_\_\_ rounds of the clock.  
 i) 2      ii) 3      iii) 4
- q) How much time has passed if the minute hand has moved from 6 to 10  
 i) 10 minutes    ii) 15 minutes      iii) 20minutes
- r) ₹ 678.60 x 10 = \_\_\_\_\_  
 i) ₹ 678600      ii) ₹ 6786.00      iii) ₹ 67.86
- s) ₹ 567.00 ÷ 10 = \_\_\_\_\_  
 i) ₹ 5670      ii) ₹ 56700      iii) ₹ 56.70
- t) ₹ 100 – ₹ 60.50 = \_\_\_\_\_  
 i) ₹ 160.50    ii) ₹ 49.50      iii) ₹ 39.50

**2. Solve the following:** (2x 8=16)

- a) Check whether the following fractions are equivalent or not:  
 $\frac{8}{10}$  ,  $\frac{40}{50}$
- b) Find the sum:  
 $\frac{7}{11}$  +  $\frac{2}{11}$
- c) Convert into like decimals :  
 3.14 , 6.9
- d) Write as decimal and then as a fraction:  
 350 and 2tenths and 6 hundredths
- e) Find the diameter of the circle whose radius is 37 cm
- f) Find the perimeter of the triangle whose sides are :  
 14cm , 18 cm and 20cm
- g) Convert into minutes : 12 hours
- h) Divide : ₹ 51.30 ÷ 6

**3. Solve the following as directed:**

**(3x6=18)**

- a) Rishi covered  $\frac{4}{5}$  of the distance by car and  $\frac{1}{2}$  by train .Find the total distance covered .
- b) Draw line segments of : a) 8 cm                      b) 12cm
- c) Fill in the blanks:
  - i) The point through which we can draw a circle is called \_\_\_\_\_
  - ii) An \_\_\_\_\_ of a circle is a part of the circle.
  - iii)The diameter divides a circle into two equal parts ,each part is called a \_\_\_\_\_
- d) Find the area of a rectangle of length 15cm and breadth 12cm.
- e) Convert into seconds : 5minutes 30 seconds
- f) ₹3060 was spent to buy 6 lamps .Find the cost of 1 lamp.

**4. Solve the following:**

**(4x4=16)**

- a) Draw any circle .  
Label its centre as P.  
Mark a diameter RPQ on it.  
Make any chord CD in it.
- b) The perimeter of a rectangular park is 160m .If its breadth is 33m,find its length.
- c) At the grocery store a woman bought 5kg rice at the rate of ₹ 35 per kg ,2litres oil at the rate of ₹108 per litre and 1kg dal at the rate of ₹105 per kg .Make a bill for the above purchases.
- d) Reena runs around a square side of 13m and Rohit runs around a rectangular field of length 12m and breadth 10m .Find who runs more distance and by how much .?

**5. Solve the following:**

**(5x2=10)**

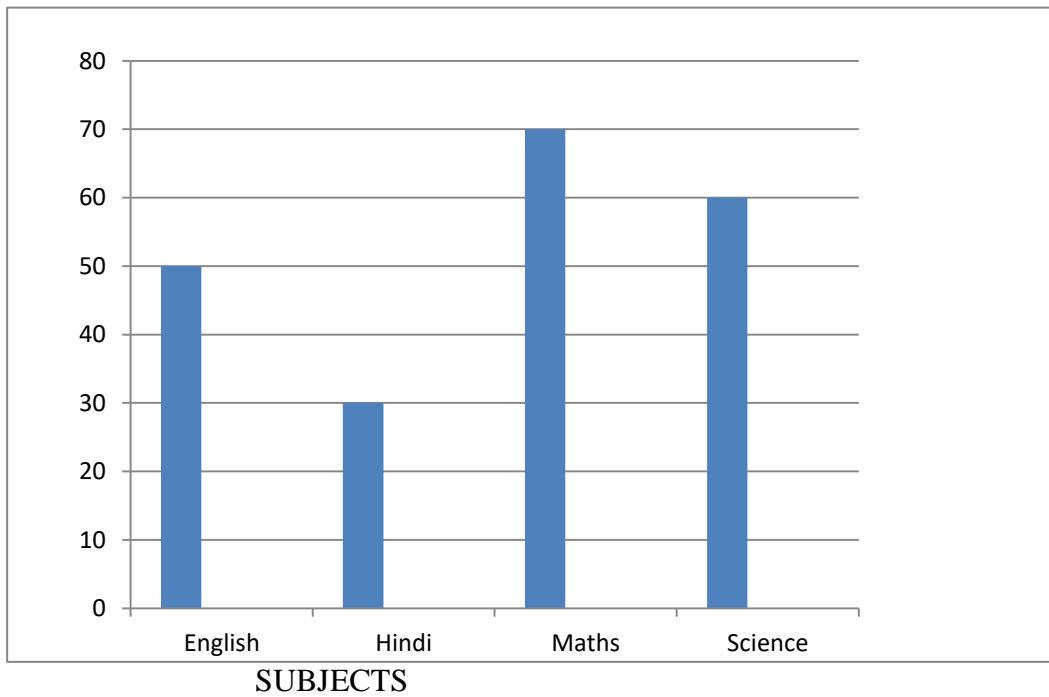
- a) The data table below shows the ice cream flavour and the number of students who like the flavours.

Ice cream flavours	Chocolate	Vanilla	Butter scotch	Straw-berry	orange	pistachio
NO. of students	10	6	8	7	9	10

Now answer the following questions:

- i. Which flavour is liked by most children?
- ii. Which flavour is liked by least number of children?
- iii. How many more children like butterscotch than vanilla?
- iv. Which two flavours are liked by equal number of children?
- v. How many children were asked in all?

b) The following bar graph shows the marks of students in different subjects .



Now answer the following questions:

- i. In which subject is the mark highest?
- ii. How many marks did the student score in science?
- iii. What is the difference between the marks in Hindi and English?
- iv. In which subject is the marks lowest?
- v. Calculate the total marks of all the four subjects.

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