## SUMMATIVE ASSESSMENT - III - 2016-2017 MATHEMATICS

# (English Medium) <br> PRINCIPALS OF EVALUATION 

## Class: VI

## Section - I

1. The length of a rectangular field $=60 \mathrm{~m}$

By the problem, breadth of the filed $=\frac{1}{2} \times 60 \mathrm{~m}=30 \mathrm{~m}$
1 Mark
$\therefore$ Area of the rectangular field $=$ length $\times$ breadth sq. units
1/2 Mark

$$
\begin{aligned}
& =60 \times 30 \text { sq.m. } \\
& =1800 \text { sq.m }
\end{aligned}
$$

$$
1 ⁄ 2 \text { Mark }
$$

2. Natural objects which have two or more than two lines of symmetry are :
$\begin{array}{ll}\text { 1) Water melon } & 1 \text { Mark } \\ \text { 2) Apple } & 1 \text { Mark }\end{array}$
[For any other correct answers marks should be awarded]
3. The smallest number, having four different prime factors is $2 \times 3 \times 5 \times 7 \quad 1$ Mark
i.e. $210 \quad 1$ Mark
4. Cost of one note book $=₹ 15$

Number of note books that Chandana bought $=12$
Amount that Chandana has to pay to the shopkeeper $=₹ 15 \times 12 \quad 1 / 2$ Mark
Number of note books that Waseela bought $=10$
Amount that Waseela has to pay to the shopkeeper $=₹ 15 \times 10 \quad 1 / 2$ Mark
$\therefore$ Total amount that Chandana and Waseela have to pay to the

$$
\begin{aligned}
& \text { shopkeeper }=₹ 15 \times 12+₹ 15 \times 10 \quad 1 / 2 \text { Mark } \\
& =₹ 15[12+10] \\
& =₹ 1512 \\
& =330 \\
& \text { 1/2 Mark }
\end{aligned}
$$

## Section - II

5. Ratio of Rahul's marbles to Tushar's marbles $=2: 3$

1 Mark

$$
\text { Total parts }=2+3=5
$$

1 Mark
Total number of marbles $=25$
1 Mark
$\therefore$ Tushar's share of Marbles $=25 \times \frac{3}{5}$

$$
=15
$$

1 Mark
6.
(i) $(-6)-(5)-(+2)=-6-5-2$

$$
=-13
$$

1 Mark
1 Mark
(ii) $(-3)+(-6)+(-24)=-3-6-24$

$$
=-33
$$

1 Mark
1 Mark
7. The number of blades that a fan has $=3$

1 Mark
Number of fans $=n$ (say)
1 Mark
The number of blades for ' $n$ ' fans $=3 \times n$

$$
=3 n
$$

$\therefore$ The required rule $=3 n$
1 Mark
1/2 Mark
½ Mark
8. i) $1 \frac{2}{7}=\frac{7 \times 1+2}{7}=\frac{7+2}{7}=\frac{9}{7}$

1 Mark
ii) $3 \frac{2}{8}=\frac{8 \times 3+2}{8}$

$$
\begin{aligned}
& =\frac{24+2}{8} \\
& =\frac{26}{8}
\end{aligned}
$$

iii) $10 \frac{2}{9}=\frac{9 \times 10+2}{9}$

$$
=\frac{90+2}{2}
$$

$$
=\frac{92}{9}
$$

iv) $8 \frac{7}{9}=\frac{9 \times 8+7}{9}$

$$
=\frac{72+7}{9}=\frac{79}{9}
$$

9. i) No. of sides of the polygon $=5$

Name of the polygon = Pentagon
1 Mark
ii) No. of sides of the polygon $=4$

Name of the polygon = Quadrilateral
1 Mark
iii) No. of the polygon $=6$

Name of the polygon - Hexagon
1 Mark
iv) No. of sides of the polygon $=3$

Name of the polygon = triangle
1 Mark

## Section - III

10. Length of the piece of land $=5 m$

Breadth of the piece of land $=4 m$
1 mark
Area of the piece of land $=$ length breadth sq. units 1 Mark

$$
\begin{aligned}
& =5 \times 4 \text { sq. meters } \\
& =20 \text { sq. meters }
\end{aligned}
$$

Area of each square flower bed $=1$ sq. metre 1 Mark
Area of 5 square flower beds $=5$ sq. metres $\quad 1$ Mark
$\therefore$ Area of remaining part of the land $=20-5$ sq. meteres 1 Mark
$=15$ sq. metres 1 Mark
(or)
i) Income for 15 months = ₹ 18000

1 Mark
Income for 1 month $=₹ \frac{18000}{15}$
1 Mark
$\therefore$ Income for 7 months $=₹ \frac{18000}{15} \times 7$

$$
\begin{aligned}
& =₹ 1200 \times 7 \\
& =₹ 8400
\end{aligned}
$$

2 Marks
ii) No. of months required to earn ₹ $18000=15$ 1Mark

No. of months required to earn ₹ $1 \frac{15}{18000}$ 1 Mark
$\therefore$ No. of months required to earn ₹ $3000=\frac{15}{18000} \times 30000$

$$
=25
$$

2 Marks
11. Length of the room $=12 \mathrm{~m}$

Breadth of the room $=15 \mathrm{~m}$
1 Mark
Height of the room $=18 \mathrm{~m}$
The H.C.F. of $12,15,18$ will give us the length of the tape which can measure all the three dimensions of the room exactly.

| $\left.\begin{array}{l} 12=2 \times 2 \times\left(\begin{array}{l} 3 \\ 15 \\ 3 \\ 18 \end{array}\right) \times 5 \times 3 \times 5 \end{array}\right) \times 2$ |
| :---: |
|  |  |
|  |  |

3 Marks
H.C.F. of 12,15 and 18 is 3

1 Mark
$\therefore$ The length of the longest tape that can measure
all the three dimensions of the room exactly $=3$ meteres 1 Mark (or)
The cost of petrol per litre $=₹ 70$
2 Marks
No. of litres petrol sold in a day $=750$
2 Marks
Money that petrol bunk gets for a day = ₹ $750 \times 70 \quad 2$ Marks

$$
=₹ 52500
$$

2 Marks
12. i) An angle smaller than right angle is actue angle. [True) 1 Mark
ii) A right angle measures $180^{\circ}$.[False] 1 Mark

Correst statement : Aright angle measures $90^{\circ}$. 2 Marks
iii) A straight angle measures $90^{\circ}$ [False] 1 Mark

Correct statement : A straight angle measures $180^{\circ}$.
2 Marks
iv) An angle whose measure lives between $180^{\circ}$ and $360^{\circ}$ is a reflex angle. [True]

1 Mark

For construction 4 Marks

Writing steps of constuction 2 Marks
$\mathrm{MN}=12 \mathrm{~cm}, \mathrm{AB}=4 \mathrm{~cm}, 3 \mathrm{AB}=3 \times 4 \mathrm{~cm}=12 \mathrm{~cm}=\mathrm{MN}$

13．Scale：$\quad$ 南 5 votes
Note ：Any symble can be taken for scale．
Pictograph

| Symbol | Number of votes |
| :---: | :---: |
| Sun | 目目目目目目目 |
| Pot | 日日日日日日日日目日目 |
| Tree | 目目目目目 |
| Watch | 日日日日 |

（or）
For constuction
For writing steps of construction

## PART－B

14． C
15． C
26． C
16． C
27．C
17． B
28．C
18．B
29．C
19． D
30．D
20． C
31．B
21．A
32. D
22． B
23． A
24．A
25．B

