



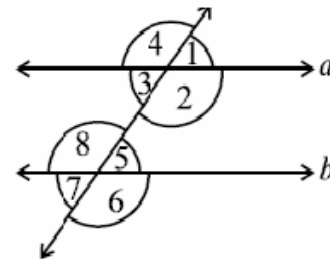
ANANDALAYA
SUMMATIVE ASSESSMENT – 1
Class : VII

Subject : MATHEMATICS
Date : 16/9/2016

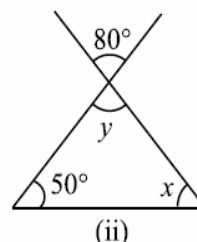
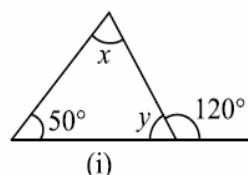
M.M : 50
Time : 2 Hours

- Q.1 Which one is correct?
The value of $(-12) + (-7)$ is: a (1)
- (a) 19 (b) -5 (c) 5 (d) -19
- Q.2 The reciprocal of $\frac{7}{13}$ is: (1)
- (a) $\frac{-13}{7}$ (b) $\frac{-7}{20}$ (c) $\frac{6}{13}$ (d) $\frac{13}{7}$
- Q.3 The marks (out of 50) obtained by a group of students are 49,39,17,28,18,29,25. The range of marks obtained is: (1)
- (a) 49 (b) 32 (c) 23 (d) 17
- Q.4 The pair of angles which are complementary is: (1)
- (a) $63^\circ, 37^\circ$ (b) $68^\circ, 22^\circ$ (c) $111^\circ, 57^\circ$ (d) $139^\circ, 41^\circ$
- Q.5 The number of medians, a triangle has: (1)
- (a) 2 (b) 1 (c) 6 (d) 3
- Q.6 If $\Delta ABC \cong \Delta DEF$, then \overline{BC} corresponds to : (1)
- (a) \overline{EF} (b) \overline{DF} (c) \overline{AC} (d) \overline{DE}
- Q.7 Using suitable properties, simplify following: (2)
- $49 \times (-87) + (-187) \times (-49)$
- Q.8 Write equations for the following statements: (2)
- (a) One-fifth of a number y minus 7 gives 7.
(b) If you take away 8 from 6 times p , you get 50
- Q.9 Rama purchased $2\frac{1}{5}$ kg mango and $1\frac{2}{3}$ kg berries. What is the total weight of fruits purchased by her? (2)
- Q.10 Identify from the given figure: (2)

- (a) Two pair of adjacent angles
(b) Two Pair of vertically opposite angles.



- Q.11 A plane is flying at the height of 4000m above the sea level. At a particular point, it is exactly above a submarine floating 350m below the sea level. What is the vertical distance between them? (2)
- Q.12 Find the values of the unknowns x and y in the following diagram: (2)



Q.13 ΔABC and ΔPQR are congruent under the correspondence : (2)

$$ABC \leftrightarrow RQP$$

Write the parts of ΔABC that correspond to

- (i) \overline{PQ} (ii) $\angle Q$ (iii) \overline{RP} (iv) $\angle R$

Q.14 In a class test containing 10 questions, 3marks are awarded for every correct answer and (-1) marks for every incorrect answer and 0 for questions not attempted. (3)

- (a) Saina gets four correct and six incorrect answers. What is her score?
 (b) Ram gets five correct and five incorrect answers. What is his score?

Q.15 Solve the following equations: (3)

(i) $7 + 10(p - 1) = 37$

(ii) $\frac{3x}{5} - 2 = 1$

Q.16 The teacher tells the class that the highest marks obtained by a student in his class is thrice the lowest marks plus 7. The highest score is 97. What is the lowest score? (3)

Q.17 State the property that is used in each of the following statements. (3)

(a) IF $a \parallel b$, then

(i) $\angle 1 = \angle 5$

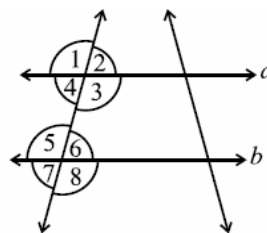
(ii) $\angle 4 = \angle 6$

(b) If $a \parallel b$, then

(i) $\angle 4 + \angle 5 = 180^\circ$

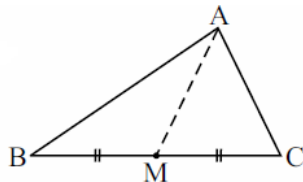
(ii) $\angle 3 + \angle 6 = 180$

(c) Write two pairs of corresponding angles



Q.18 A tree is broken at a height of 3m from the ground and its top touches the ground at a distance of 4 m from the base of the tree. Find the original height of the tree. (3)

Q.19 AM is a median of a triangle ABC, then show that $AB + BC + CA > 2 AM$ (3)



Q.20 Each side of a park (regular polygon in shape) is 2.5m in length. The perimeter of the polygon 32.50 m. How many sides does the polygon have? (4)

Q.21 A mathematics teacher wants to see, whether the new technique of teaching she applied after quarterly test was effective or not. She takes the scores of the 4 weak children in the quarterly test(out of 25) and in the half yearly test(out of 25). Draw a double bar graph choosing appropriate scale and answer the following: (4)

| Students | Ashish | Arun | Kavish | Maya |
|-------------|--------|------|--------|------|
| Quarterly | 10 | 15 | 12 | 20 |
| Half Yearly | 15 | 18 | 16 | 21 |

(i) Which student improved most his/her performance?

(ii) Which student improved least?

Q.22 Ramesh went to the market and purchased 12 pencils at the rate of Rs 1.05 per pencil and 13 note-books at the rate Rs 32. 50. After purchasing, he went to a school and donated it for the needy children. How much money did he spend and what value has been shown by him? (4)