

ST. JOSEPH'S ACADEMY, DEHRA DUN

2ND UNIT TEST DEC' 2018

MATHEMATICS CLASS VI

M.M. 25 TIME 45 MINS

NAME OF THE STUDENT..

... CLASS/ SECTION

ROLL NO.

Q1. (a) $\frac{3y}{5} + 8 = 12 + y$, find y.

[2]

(b) What is the cost of 1 banana if the cost of a dozen bananas is Rs.48? Also find the cost of 18 bananas.

[3]

Q2. (a) Find the ratio of each of the following in simplest form: -

[2]

(i) 3 months to 1 year

(ii) 40 kg to 2 quintals

(b) Fill in the blanks:-

[6 X ½ = 3]

(i) The midpoint of a diameter of a circle is the _____ of the circle.

(ii) The perimeter of a circle is called its _____.

(iii) _____ is the longest chord of a circle.

(iv) The whole arc of the circle is called its _____.

(v) A line which intersects a circle at two distinct points is called _____.

(vi) One half of the whole arc of a circle is called _____.

P.T.O.

Q3.

a) Draw a line segment $AB = 5.8$ cm. Using ruler and compasses, draw the perpendicular bisector of AB . [2]

b) Solve for 'x': $4(3x + 1) - 3(x - 5) = 6(x + 4) + 4$ [3]

Q4.

a) Find the value of x :- $35 : x :: 63 : 81$ [2]

b) Draw a line segment AB of length 8 cm. Draw a circle with AB as diameter. In this circle draw a Chord of length 5 cm. Shade the minor segment of the circle. [3]

Q5.

a) The ratio of the number of girls to that of boys in a school is 7:12. If the number of boys in school is 1380. Find: (i) The number of girls in school (ii) Total number of students in school [2]

b) Divide Rs.5200 among A, B and C in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ [3]