

Class VIII (CBSE) Second Summative Assessment 2011-12

Subject: Compulsory Mathematics
Time: 2.5 Hours

Full Marks: 80
Pass Marks: 40

Answer all the questions.

Group A [1 X 10 = 10]

Choose and write the correct alternative in each of the following.

- When simplified $\left(-\frac{1}{27}\right)^{\frac{2}{3}}$ is
(a) 9 (b) -9 (c) $-\frac{1}{9}$ (d) $\frac{1}{9}$
- If $x + \frac{1}{x} = 3$, then $x^2 + \frac{1}{x^2} =$
(a) 5 (b) 7 (c) 9 (d) 11
- Which of the following is a Pythagorean triplet?
(a) (2, 3, 5) (b) (5, 7, 9) (c) (6, 9, 11) (d) (8, 15, 17)
- What is the cube of 60?
(a) 180 (b) 18000 (c) 21600 (d) 216000
- The three angles of a quadrilateral are 76° , 54° and 108° . What is the measure of the fourth angle?
(a) 112° (b) 12° (c) 22° (d) 122°
- If $\frac{x}{5} = 5$ and $\frac{x}{a} = 2$ then the value of a is

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- (a) 50 (b) 100 (c) 10 (d) 25

- If all the three angles of a triangle are equal, then each one of them is equal to
(a) 90° (b) 45° (c) 60° (d) 30°
- In triangle ABC, if $\angle A = 100^\circ$, $AB = AC$. What is the measure of $\angle B$?
(a) 50° (b) 90° (c) 40° (d) 100°
- $\frac{9}{16} + \frac{3}{8}$ is equal to
(a) $\frac{27}{128}$ (b) $\frac{3}{2}$ (c) $\frac{72}{48}$ (d) $\frac{48}{72}$
- If a quadrilateral has all the angles equal but the adjacent sides are unequal, then the quadrilateral is a
(a) square (b) rectangle (c) rhombus (d) kite

Group B [(2+2) X 8 = 32]

- a. Evaluate: (a) $\left(\frac{64}{27}\right)^{\frac{1}{3}}$
b. Find the square root of 6.6049 by division method.
- a. Find the least number which must be subtracted from 7581 to obtain a perfect square number.
b. If $x^2 + \frac{1}{x^2} = 27$, then find the value of $x + \frac{1}{x}$
- (a) Find the product of $(x-2)(x^2+2x+4)$
(b) Factorise: $x^2 + x - 56$

- (a) Solve for x : $\frac{1}{4}x + \frac{1}{6}x = x - 7$
(b) Two even numbers are in the ratio of 3:5 and their sum is 32. Find the two numbers.
- (a) Find the loss or gain percent if the cost price of an article is Rs 1550 and the selling price is Rs 1800.
(b) If a man earns Rs 5950 in a week on a daily wages basis, what is his earning for a month of 30 days?
- (a) In the adjoining figure, ABCD is a parallelogram in which $\angle DAO = 35^\circ$, $\angle CAB = 60^\circ$ and $\angle COB = 75^\circ$. Calculate the angle CBD.
(b) Two parallel sides of a trapezium are of lengths 27cm and 19cm respectively and the distance between them is 14cm. Find the area of the trapezium.
- (a) Evaluate $\sqrt[3]{64} \times \sqrt[3]{1000}$
(b) State any four properties of a parallelogram.
- (a) The two adjacent sides of a rectangle are $5a^2 - 3b^2$ and $a^2 + 2ab$. Find its perimeter.
(b) Without using actual multiplication, evaluate $8.6^2 - 1.4^2$

Group C [4 X 9 = 36]

- What least number must 2352 be multiplied so that the product can be a perfect square number? Also find the square root of the new number so obtained.

- The sum of the digits of a two-digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, find the original number.
- Calculate the difference between the simple interest and the compound interest on Rs 6400 for 2 years and compounded annually at $7\frac{1}{2}\%$.
- 500 students in a hostel had enough food for 30 days. But after 6 days, some students left the hostel and then the food lasted for 32 more days. Find out how many students left the hostel after 6 days.
- Solve for x : $\frac{2x+7}{5} + \frac{3x+11}{2} = \frac{2x+8}{3} - 5$
- Divide $10x^2 + 17x^2 - 62x^2 + 30x - 3$ by $2x^2 + 7x - 1$
- The circumference of the base of a cylinder is 176 cm and its height is 65cm. Find the volume of the cylinder and its lateral surface area.
- Find the volume, lateral surface area and the total surface area of a cuboid having dimensions of length 15 cm, breadth 12cm and height 10 cm.
- In the adjacent figure, ABCD is a rectangle. BM and DN are perpendiculars drawn from vertices B and D on diagonal AD. Prove that $\triangle BMC \cong \triangle DNA$ and $BM = DN$.



Note: 2 marks for Home work/Class work activities.
The End

*****Good Luck*****

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Jiyuan Zhang



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