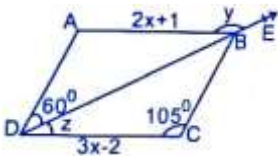


Class 8 - Ganit Pradnya – Year 2022 Test Paper

Q. 1 (A) What should be in place of ? in 3, 4, 16, 75, 364?



(B) In the given adjoining figure □ ABCD is a parallelogram with given information. Find the values of x, y and z.



Q. 2 (A) In the adjoining figure, prove that $\angle A + \angle B + \angle C + \angle D + \angle E = 180^\circ$

(B) If, $\frac{(5.8)^2 + 8.4 \times 5.8 + 4.2 \times 4.2}{\left(\frac{2}{7} + \frac{2}{3}\right)} + 16 = x$, then find

the value of \sqrt{x}

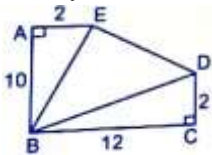
Q. 3 (A) find the smallest number by which 20250 is divided by it so that the number obtained is a perfect cube. Find its cube root.

(B) A man invested $\frac{1}{3}$ of his capital at 7 p.c.p.a., $\frac{1}{4}$ at 8 p.c.p.a and the remaining at 10 p.c.p.a. by simple interest. If his annual income from simple interest is Rs. 561. Find the sum invested

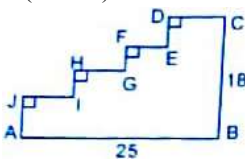
Q. 4 (A) Using the digits 2, 3, 4, 5, 6, 7 only once form two three digit numbers whose product is maximum write its product.

(B) Length, breadth and height of a cuboidal room are 30m, 20m and 5m respectively. There are 4 windows of dimension 1.5 m x 1.2 m and one door of dimension 3 m x 1.6 m for the room support there are 4 semi circular pillars of radius 35 cm are attached to the walls, then find the cost of painting at the rate of Rs. 25 per square metre for the four walls of the room.

Q. 5 (A) A boy completes a journey 100 km in 3 hours. He covers some distance at a speed of 40 km/hr by bus and rest of the distance at 30 km/hr by autoriksha. Find the distance travelled by autoriksha.



(B) In the adjoining figure $\angle ABC = \angle BAE = \angle BCD = 90^\circ$, AE = 2, AB = 10, DC = 2, BC = 12 then find A (ΔBED)



Q. 6 (A) From the information given in the figure. Find the perimeter of the figure.

(B) If a = 9, b = 4 then find the value of $8a^3 - 27b^3 - 36a^2b + 54ab^2$.

Q. 7 (A) Bhagwat donated 4% of his income to charity and deposited 10% of the rest in a bank. If now he has Rs. 8640 left with him then find his income.

(B) Draw a circumcircle of ΔABC, in which $\angle B = 90^\circ$ and hypotenuse $AC = \sqrt{61}$ cm.

Q. 8 (A) If $2a^2 + 3a - 2 = 0$ from this find the value of $a^2 - \frac{1}{a^3} + 2$

(B) The average age of P, Q and R is 52 years. By admitting the fourth person 'S' in the group the average age is decreased by 4 years. If T whose age is 8 year less than 'S' replaced by P then the average age of Q, R, S and T again decreased by 4 year. Find the age of P.

Q. 9 (A) Find the greatest 6 digit number which when divided by 6, 7, 8, 9 and 10 leaves 4, 5, 6, 7 and 8 respectively as remainders.

(B) If $\frac{a^{\frac{8}{5}} \times b^{\frac{4}{3}} \times b^{\frac{2}{3}}}{b^{-1} \times a^{\frac{-2}{5}}} = \frac{625^{\frac{1}{4}} \times 243^{\frac{-3}{5}}}{81^{\frac{-5}{4}} \times 125^{\frac{-2}{3}}}$ then a x b = How

many?

Q. 10 (A) Find the sum of digits in the number $10^9 + 10^7 - 7^3$.

(B) The mixture of milk and water in three bottles are in the ratio 4 : 3, 5 : 4 and 7 : 6 respectively. If the mixture of all the three bottles mixed in a tub. Find the ratio of milk and water in the tub.

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