

CLASS VIII (MATHEMATICS)

CHAPTER –1. RATIONAL NUMBERS.

Put a tick mark(✓) on the correct answer :

Q1.Which of the following numbers is the additive inverse of $7/29$

- (i) $29/7$ (ii) $-29/7$ (iii) $-7/29$ (iv) $7/29$

Q2.Which of the following numbers is the multiplicative inverse of $15/31$

- (i) $31/15$ (ii) $-31/15$ (iii) $-15/31$ (iv) $15/31$

Q3.Which of the following numbers has no multiplicative inverse

- (i) zero (ii) 1 (iii) -1 (iv) none of these

Q4. Which of the following numbers is the product of $6/13$ & $-26/3$

- (i) 1 (ii) -4 (iii) $-266/133$ (iv) $266/133$

Q5.Which of the following numbers is its own reciprocal

- (i) 10 (ii) zero (iii) $1/5$ (iv) 1

Q6.Which of the following numbers is the decimal form of $1/4$

- (i) -0.25 (ii) 2.5 (iii) 0.25 (iv) -2.5

Q7.Which of the following numbers lies in the middle of $3/4$ & $7/4$

- (i) 5.0 (ii) 3.0 (iii) 2.5 (iv) 1.25

Q8.Which pair of following numbers are respectively the additive & multiplicative identities.

- (i) 2 & 0 (ii) 1 & -1 (iii) -1 & 0 (iv) 0 & 1

Q9.Which of the following numbers is the simplest form of $3/4 + (-1/4) + (-5/4)$

- (i) $9/4$ (ii) $-3/4$ (iii) $-9/4$ (iv) $7/4$

Q10.Which of the following properties indicates the given operation

$$[(-1/5) + (-3/5)] + (1/7) = (-1/5) + [(-3/5) + (1/7)]$$

- (i) commutative (ii) associative (iii) distributive (iv) none of these

CHAPTER –3.UNDERSTANDING QUADRILATERALS.

Put a tick mark(✓) on the correct answer :

Q1.How many diagonals does a convex quadrilateral has ?

- (i)one (ii)two (iii)three (iv)four

Q2.What is the sum of all interior angles of a pentagon ?

- (i) 180^0 (ii) 360^0 (iii) 540^0 (iv) 720^0

Q3. How many sides a regular polygon has whose each exterior angle is 45^0 ?

- (i)eight (ii)seven (iii)six (iv)five

Q4.What is the minimum interior angle possible for a regular polygon?

- (i) 60^0 (ii) 80^0 (iii) 120^0 (iv) 160^0

Q5. What is the maximum exterior angle possible for a regular polygon?

- (i) 60^0 (ii) 80^0 (iii) 120^0 (iv) 160^0

Q6. What is the perimeter of the parallelogram whose two adjacent sides are 12cm & 7cm?

- (i) 28cm (ii) 38cm (iii) 84cm (iv)168cm

Q7. What is the area of the rectangle whose perimeter is 16 cm & length 5 cm ?

- (i) 3.2cm^2 (ii) 80cm^2 (iii) 15cm^2 (iv) 16cm^2

Q8.In the given parallelogram , find the value of 'x', 'y' & 'z'



Q9.If the two adjacent angles of a parallelogram are equal then each of its angle is ?

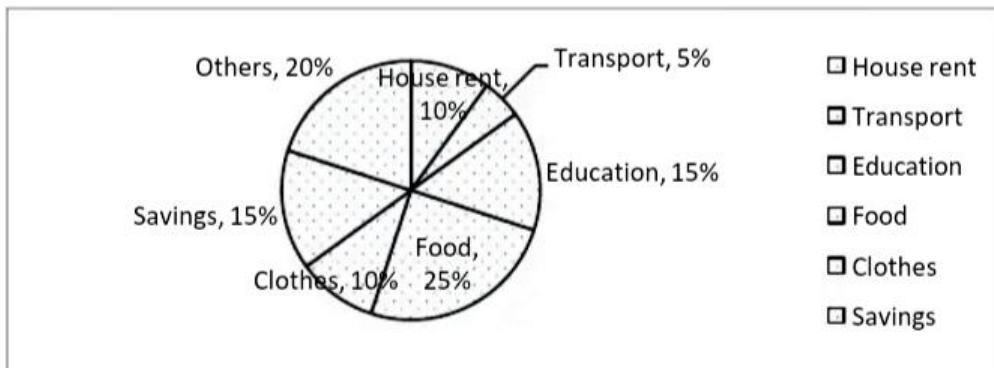
- (i) 70^0 (ii) 80^0 (iii) 90^0 (iv) 100^0

Q10.If the two diagonals of a rhombus are 8cm & 6cm, its area is ?

- (i) 28cm^2 (ii) 48cm^2 (iii) 14cm^2 (iv) 24cm^2

CHAPTER –5. DATA HANDLING.

Q.1 Adjoining pie chart gives the expenditure (In percentage) on various items & savings of a family during a month. Answer the following questions on the basis of the information given in the pie chart.



(a) On which item, the expenditure is maximum?

- (i) House rent (ii) Food (iii) Others (iv) Education

(b) Expenditure on which item is equal to the total savings of the family?

- (i) House rent (ii) Food (iii) Clothes (iv) Education

(c) If the monthly savings of the family is Rs.3000, what is the monthly expenditure on clothes?

- (i) Rs. 2000 (ii) Rs. 3000 (iii) Rs.1000 (iv) Rs.4000

Q2. What are the possible number of outcomes if a coin is tossed twice?

- (i) one (ii) two (iii) three (iv) four

Q3. What are the possible number of outcomes if a die is tossed once?

- (i) six (ii) five (iii) three (iv) four

Q4. What are the possible number of outcomes if a card is drawn from a pack of 52 cards?

- (i) 20 (ii) 30 (iii) 42 (iv) 52

Q5. What is the probability of getting a king if a card is drawn from a pack of 52 cards?

- (i) $\frac{1}{52}$ (ii) $\frac{2}{52}$ (iii) $\frac{3}{52}$ (iv) $\frac{4}{52}$

Q6. What is the probability of getting a prime number if a die is tossed once?

- (i) $\frac{1}{6}$ (ii) $\frac{2}{6}$ (iii) $\frac{3}{6}$ (iv) $\frac{4}{6}$

CHAPTER –7. CUBES & CUBE ROOTS.

Put a tick mark(✓) on the correct answer :

Q1.Which of the following numbers must be subtracted from 345 to get a perfect cube ?

- (i) 121 (ii) 131 (iii) 2 (iv) 24

Q2.Which of the following numbers is a perfect cube ?

- (i) 343 (ii) 443 (iii) 543 (iv) 643

Q3.Which of the following numbers must be multiplied to 392 to get a perfect cube ?

- (i) 2 (ii) 3 (iii) 4 (iv) 7

Q4. By which of the following numbers 10648 must be divided to get a perfect cube ?

- (i) 2 (ii) 4 (iii) 5 (iv) 7

Q5.What is the volume of a cube whose each side is 4cm ?

- (i) 24cm^3 (ii) 48cm^3 (iii) 64cm^3 (iv) 125cm^3

CHAPTER –9. ALGEBRAIC EXPRESSIONS AND IDENTITIES.

Put a tick mark(✓) on the correct answer :

Q1.What is the sum of $7xy + 5yz - 3xz$ & $2xy + 4yz + 2xz$?

- (i) $8xy + yz - xz$ (ii) $9xy + 9yz - xz$ (iii) $9xy + 9yz + xz$ (iv) $9xy + 9yz + 5xz$

Q2. What should be subtracted from $2x^2 - 5y^2 + 7z^2$ to get $x^2 - y^2 + z^2$

- (i) $x^2 - 4y^2 + 6z^2$ (ii) $x^2 - 3y^2 + 6z^2$ (iii) $3x^2 - 2y^2 + 2z^2$ (iv) $x^2 - y^2 + z^2$

Q3.What is the product of $3xy$, $4xy$ & $2xz$?

- (i) $24xyz$ (ii) $24x^2yz$ (iii) $24x^3y^2z$ (iv) $24x^3y^2z^2$

Q4.What is the area of the rectangle of length $4xy$ & breadth $2xy$?

- (i) $8xy^2$ (ii) $8x^2y$ (iii) $4x^3y^2z$ (iv) $8x^2y^2$

Q5.What is the volume of the cuboid of length $8xy$, breadth $3xy$ & height xy ?

- (i) $24xy^2$ (ii) $24x^2y$ (iii) $24x^3y^2$ (iv) $24x^3y^3$

Q6. What is the value of the expression $2ab + 3bc + 4ac$, when $a = b = c = 1$?

- (i) 5 (ii) 6 (iii) 7 (iv) 8

Q7. What is the formulae for $(x - y)^2$?

- (i) $x^2 + 2xy + y^2$ (ii) $x^2 - 2xy + y^2$ (iii) $x^2 - 2xy - y^2$ (iv) $x^2 - y^2$

Q8. What is the simplified form of $(a^2 - b^2)^2$?

- (i) $a^4 + 2a^2b^2 + b^4$ (ii) $a^4 - 2a^2b^2 + b^4$ (iii) $a^4 - 2a^2b^2 - b^4$ (iv) $a^4 + a^2b^2 + b^4$

