

Grade VIII
Mathematics
Home Work
(1st Week)

MATHEMATICS

MCQ

Unit No: II

Instructions: Students before attempting this MCQ, read the page number **12 to 13** of **unit II** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

1. The rational number from the following is

(1 Mark)

π (A)

2 (B)

$\frac{2}{13}$ (C)

$\sqrt{5}$ (D)

Or

Unit No: II

Instructions: Students before attempting this MCQ, read the page number **17 to 20** of **unit II** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

2. $\sqrt{0.36} =$ _____.

(1 Mark)

1.9 (A)

1.5 (B)

0.8 (C)

0.6 (D)

CRQ

Unit No: II

Instructions: Students before attempting this CRQ, read the page number **24** to **28** of **unit II** from Mathematics Grade VIII STBB.

3. Determine the cube root of the following with proper working steps.

$$\frac{27}{64}$$

(4 Marks)

Solution.

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(2nd Week)

MCQ

Unit No: III

Instructions: Students before attempting this MCQ, read the page number **39 to 46** of **unit III** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

4. $102_5 + 33_5 = \underline{\hspace{2cm}}$.

(1 Mark)

111_5

Ⓐ

123_5

Ⓑ

132_5

Ⓒ

140_5

Ⓓ

Or

Unit No: III

Instructions: Students before attempting this MCQ, read the page number **39 to 46** of **unit III** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

5. $443_8 - 75_8 = \underline{\hspace{2cm}}$.

(1 Mark)

267_8

Ⓐ

346_8

Ⓑ

371_8

Ⓒ

425_8

Ⓓ

CRQ

Unit No: III

Instructions: Students before attempting this CRQ, read the page number **37 to 38** of **unit III** from Mathematics Grade VIII STBB.

6. Convert the given base 5 and base 2 numbers into decimal system. Show proper working steps.

a) 1232_5

b) 11011_2

(4 Marks)

Solution.

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(3rd Week)

MCQ

Unit No: V

Instructions: Students before attempting this MCQ, read the page number **85 to 87** of **unit V** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

7. Recognize the given polynomial from the following.

$$x^2 + y^2 - 2xy$$

(1 Mark)

Linear

Ⓐ

Cubic

Ⓑ

Quadratic

Ⓒ

Biquadratic

Ⓓ

Or

Instructions: Students before attempting this MCQ, read the page number **89 to 92** of **unit V** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

8. Add the given polynomials and shade the correct answer from the following.

$$(2x^2 + 3x + 5y) + (2x - 3y) = \underline{\hspace{2cm}} .$$

$2xy + 2y + y^2$

Ⓐ

$2y^2 + 4x - 3y$

Ⓑ

$2x^2 + 5x + 2y$

Ⓒ

$4xy + 2x^2 + y$

Ⓓ

CRQ

Unit No: V

Instructions: Students before attempting this CRQ, read the page number **89 to 92** of **unit V** from Mathematics Grade VIII STBB.

9. Multiply $(y^2 - 2y + 3)$ by $(y - 5)$ using horizontal method. Show proper working steps.

(4 Marks)

Solution.

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MCQ

Unit No: VI

Instructions: Students before attempting this MCQ, read the page number **98 to 100** of **unit VI** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

10.The factors of the given expression
are

$$4x + 6xz + 2y + 3yz$$

(1 Mark)

$$(2x + y)(2 + 3z)$$

Ⓐ

$$(x + y)(2x + 3z)$$

Ⓑ

$$(3x + y)(5 + 2z)$$

Ⓒ

$$(2z + 5)(4y + 3)$$

Ⓓ

Or

Unit No: VI

Instructions: Students before attempting this MCQ, read the page number **104 to 106** of **unit VI** from Mathematics Grade VIII STBB. Read carefully the given MCQ and shade the correct answer with help of a pencil.

11. The linear equation in two variables representing the given statement in words is

"The sum of length of two tables is 170 centimetres"

(1 Mark)

$x - y = 170$

Ⓐ

$x + y = 170$

Ⓑ

$xy - 170 = 0$

Ⓒ

$xy + 170 = 0$

Ⓓ

CRQ

Unit No: VI

Instructions: Students before attempting this CRQ, read the page number **96 to 97** of **unit VI** from Mathematics Grade VIII STBB.

- 12.** Find the value of $x^2 + \frac{1}{x^2}$ and $x^4 + \frac{1}{x^4}$,
when $x - \frac{1}{x} = 3$. Show proper working
steps.

(4 Marks)

Solution.