



# Mental Maths Worksheet for Class 10

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Mental Maths worksheet for class 10 is an educational resource designed to help students improve their mental arithmetic skills. It is a comprehensive collection of arithmetic problems and questions that require students to solve problems quickly and accurately in their heads, without the use of a calculator or other mathematical tools.

The worksheet covers a wide range of mathematical topics including addition, subtraction, multiplication, division, square roots, and more. The problems are designed to be challenging yet achievable and are meant to help students develop their mental math skills, build their confidence and increase their speed and accuracy in solving arithmetic problems.

This Mental Maths worksheet is a great resource for students who are preparing for their final exams or for anyone who wants to improve their mental arithmetic skills. It is also a useful tool for teachers, who can use it to supplement their lessons and help their students practice and build their mental math skills.

## Mental Maths Worksheet for Class 10

**1. What is the sum of all real numbers?**

- a) Infinity
- b) Undefined
- c) Zero
- d) -Infinity

**Answer:** b) Undefined

**2. The circumference of a circle whose radius is 21 cm, is:**

- a) 100 cm
- b) 123 cm
- c) 132 cm
- d) 144 cm

**Answer:** c) 132 cm

**3. What is the volume of a sphere with radius 2?**

- a)  $\frac{32}{3} \pi$
- b)  $\frac{8}{3} \pi$
- c)  $\frac{4}{3} \pi$
- d)  $\frac{16}{3} \pi$

**Answer:** a)  $\frac{32}{3} \pi$

**4. What is the surface area of a cylinder with a height 5 and a radius 3?**

- a)  $48\pi$
- b)  $42\pi$
- c)  $47\pi$
- d)  $36\pi$

**Answer:** a)  $48\pi$

**5. What is the length of the circumference of a circle with a radius 4?**

- a)  $24\pi$
- b)  $16\pi$
- c)  $8\pi$
- d)  $12\pi$

**Answer:** c)  $8\pi$

**6. What is the circumference of the circle if the longest chord of the circle is 4 cm?**

- a) 12.56 cm
- b) 13.2 cm
- c) 13.92 cm
- d) 14.2 cm

**Answer:** a) 12.56 cm

**7. What is the sum of the first 10 natural numbers?**

- a) 55
- b) 50
- c) 45
- d) 60

**Answer:** a) 55

**8. The probability of an event happening is 0.6. What is the probability of the event not happening?**

- a) 0.4
- b) 0.6
- c) 0.9
- d) 0.1

**Answer:** a) 0.4

**9. What is the degree of the polynomial  $2x^3 + 4x^2 - 6x + 9$ ?**

- a) 3
- b) 4
- c) 5
- d) 6

**Answer:** a) 3

**10. The equation  $2x + 3 = 7$  has what value of  $x$ ?**

- a) 1
- b) 2
- c) 4
- d) -1

**Answer:** b) 2

**11. What is the value of  $x$  in equation  $x^2 + 4x - 5 = 0$ ?**

- a) -1, 5
- b) -5, 2
- c) -1, 5
- d) 1, 5

**Answer:** c) -1, 5

**12. What is the common difference in the arithmetic progression 10, 13, 16, 19, ...?**

- a) 3
- b) 4
- c) 5
- d) 6

**Answer:** a) 3

**13. What is the value of the square root of 64?**

- a) 8
- b) 4
- c) 6
- d) 2

**Answer:** a) 8

**14. What is the formula for the area of a circle?**

- a)  $\pi r^2$
- b)  $\pi d^2$
- c)  $\pi r$
- d)  $2\pi r$

**Answer:** a)  $\pi r^2$

**15. What is the value of  $\sqrt{9}$ ?**

- a) 3
- b) 9
- c) 6
- d) 1

**Answer:** a) 3

## Solve

**1. If the length of a rectangular field is 15m and the width is 8m, what is the area of the field?**

- a)  $120 \text{ m}^2$
- b)  $123 \text{ m}^2$
- c)  $124 \text{ m}^2$
- d)  $125 \text{ m}^2$

**2. The circumference of a circle is 22cm. What is the diameter of the circle?**

- a) 7 cm
- b) 14 cm
- c) 21 cm
- d) 28 cm

**3. If the cost of 8 pens is Rs. 24, what is the cost of 20 pens?**

- a) Rs. 60
- b) Rs. 80
- c) Rs. 120
- d) Rs. 150

**4. If a man travels at a speed of 60km/hour, how long will it take him to cover a distance of 240km?**

- a) 4 hours
- b) 6 hours
- c) 8 hours
- d) 10 hours

**5. If the selling price of an article is Rs. 720 and the profit is 20%, what is the cost price of the article?**

- a) Rs. 576
- b) Rs. 600
- c) Rs. 648
- d) Rs. 700

**6. If the volume of a cube is  $343\text{cm}^3$ , what is the length of each side of the cube?**

- a) 7 cm
- b) 14 cm
- c) 21 cm
- d) 28 cm

**7. If the perimeter of a square is 40cm, what is the length of each side of the square?**

- a) 8 cm
- b) 10 cm
- c) 12 cm
- d) 14 cm

**8. If the area of a triangle is  $24\text{ cm}^2$  and the height is 6cm, what is the base of the triangle?**

- a) 2 cm
- b) 6 cm
- c) 8 cm
- d) 16 cm

**9. If the ratio of the length to the breadth of a rectangle is 3:2 and the perimeter is 50cm, what is the length of the rectangle?**

- a) 12 cm
- b) 15 cm
- c) 18 cm
- d) 20 cm

**10. If the discount on an article is 20% and the selling price is Rs. 960, what is the marked price of the article?**

- a) Rs. 800
- b) Rs. 960
- c) Rs. 1200
- d) Rs. 1500

## Answers

1. a) 120 m
2. b) 14 cm
3. b) Rs. 80
4. b) 6 hr
5. b) 600
6. a) 7 cm
7. b) 10 cm
8. c) 8 cm
9. b) 15 cm
10. c) Rs. 1200



## CREST Mathematics Workbook

As extra information, more related materials are also available for students to prepare concepts like addition for class 10. Students are encouraged to think about learning from CREST Olympiads' workbooks. These workbooks have engaging content to make learning fun for class 10 students. It will help them to practice and prepare for CREST Mathematics Olympiad (CMO) and other exams. Additionally, useful for regular school tests.

CREST Mathematics workbook for class 10 can be considered by the students because of the following features -

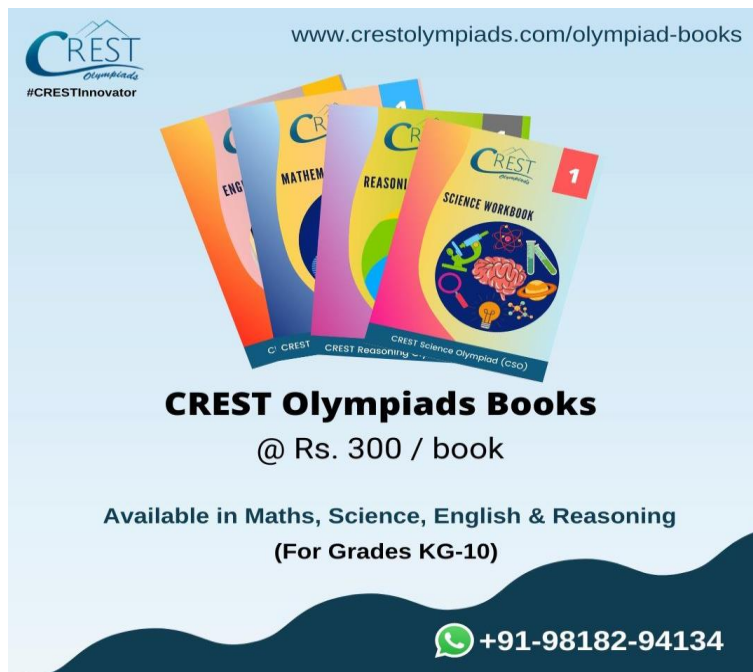
1. Includes a detailed explanation of each topic with practice questionnaires.
2. Covers [class 10 previous year paper of the CREST Mathematics Olympiad](#).
3. Provides answer key for all questions

### Useful Links:

[CREST Mathematics Olympiad Book \(First Chapter\) PDF for Class 10 \(Free Download\)](#)

[CREST Olympiads Books for Class 10](#)

Buy CREST Olympiads workbooks here: <https://www.crestolympiads.com/olympiad-books>




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## About CREST Olympiads

**CREST Olympiads, Most Innovative Olympiad exam** is conducted for students in **grades KG - 10**. These Olympiad exams are taken by students from 25+ countries and 4000+ schools.

CREST Olympiads is organized in the following subjects:

1. [CREST Mathematics Olympiad \(CMO\)](#)
2. [CREST Science Olympiad \(CSO\)](#)
3. [CREST English Olympiad \(CEO\)](#)
4. [CREST Reasoning Olympiad \(CRO\)](#)
5. [CREST Cyber Olympiad \(CCO\)](#)
6. [CREST International Spell Bee - Summer \(CSB\)](#)
7. [CREST International Spell Bee - Winter \(CSBW\)](#)

## How to register for International CREST Olympiads?

Follow the below steps to register -

**Step 1:** Visit the [Olympiad registration](#) link.

**Step 2:** The registration form opens up.

**Step 3:** Fill in all the registration form details.

**Step 4:** Select the subject(s).

**Step 5:** Read the instructions carefully.

**Step 6:** Proceed to make the payment.

**Step 7:** Registration is complete.

**Note:** In case of any queries, related to CREST Olympiads, email us at [info@crestolympiads.com](mailto:info@crestolympiads.com) or call/WhatsApp on +91-98182-94134.