



Maths Olympiad Practice Set

Twenty warm-up problems for classes 3 to 5

CLASSES 3-5 • OLYMPIAD

Name: _____ Date: _____ Time: _____

How to use this sheet

Try every question without a calculator. Show your working in the space provided.

If a question takes more than three minutes, move on and come back to it.

Olympiad questions reward careful reading — read each one twice before starting.

Q1. What is the smallest 3-digit number whose digits add up to 20?

Q2. A number is doubled and then 6 is added, giving 38. What was the number?

Q3. How many times does the digit 7 appear when you write 1 to 100?

Q4. I am thinking of a number. Half of it plus 10 equals 25. What is it?

Q5. What comes next: 2, 6, 12, 20, 30, ____ ?

Q6. A rope 48 m long is cut into pieces of 6 m. How many cuts are needed?

Q7. The sum of three consecutive numbers is 51. What is the largest?

Q8. How many rectangles (including squares) are in a 2 x 2 grid of squares?

Q9. If today is Tuesday, what day will it be after 100 days?

Q10. What is $1 + 2 + 3 + \dots + 20$?

Q11. A clock shows 3:00. What is the angle between the hands?

Q12. Which is larger: 2 to the power 10, or 1000?

Q13. A box has 5 red and 3 blue balls. How many must you take out to be sure of a blue one?

Q14. The perimeter of a square is 36 cm. What is its area?

Q15. What is the 15th odd number?

Q16. How many 2-digit numbers are divisible by both 3 and 4?

Q17. Fill in: 4, 9, 16, 25, _____, 49

Q18. A shopkeeper buys at 80 and sells at 100. What is the profit percentage?

Q19. How many diagonals does a hexagon have?

Q20. Two numbers add to 20 and multiply to 96. What are they?

- Q1. 299
- Q2. 16
- Q3. 20
- Q4. 30
- Q5. 42
- Q6. 7
- Q7. 18
- Q8. 9
- Q9. Thursday
- Q10. 210
- Q11. 90 degrees
- Q12. $2^{10} = 1024$, larger
- Q13. 6
- Q14. 81 sq cm
- Q15. 29
- Q16. 7
- Q17. 36
- Q18. 25%
- Q19. 9
- Q20. 8 and 12