



Math Placement Test

Practice Test 2

HUMBER 🕂



- 1. Write the following as a number: Ten million, five hundred four thousand, one hundred two
- 2. Round to the nearest thousandth: 13.9999
- 3. Represent 45% as a fraction reduced to the lowest terms.
- 4. Write as an ordinary number: 3.5×10^4
- 5. Eight chairs can fit around a table. If there are 96 chairs, how many tables are needed?
- 6. Compute: $9 \times (3 4 \div 2) + 2 \times 3$
- 7. For the following fraction, (i) express as a mixed number and (ii) convert to its equivalent decimal: $\frac{36}{8}$
- 8. Amy earned \$1,420 last week. If Amy's hourly pay is \$35.50, how many hours did she work last week?
- 9. Arrange the following numbers in order from smallest to largest: 0.002, 0.012, -0.102, 0.102
- 10. Write the following in decimal notation: *Seven hundred and sixty-three thousandths*.
- 11. Simplify: 2x(y + 3) 2x
- 12. Compute: $(-6) \div 2 \times [-1 (-4)]$
- 13. Compute: $12 \div (2^3 \div 4)^{-2} + 1$
- 14. Laura needs to drink at least 40 glasses of water per week. If she drinks 5 glasses every day, will she be able to reach her goal?
- 15. Helen types 175 words in two minutes. If her speed remains unchanged, how many words will she type in twothirds of an hour?
- 16. Simplify: (3x + 2) + (2x 4)
- 17. What is the ratio of two weeks to 98 days? Express your answer reduced to the lowest terms.
- 18. Amy, Alan, and Andy invested \$4,200, \$2,800, and \$3,500, respectively. What is the investment ratio of Amy: Alan: Andy? Express your answer reduced to the lowest terms.
- 19. Round the number 139,935 to the nearest hundred.
- 20. Evaluate: $\frac{3}{4} + \frac{6}{7} \div \frac{4}{5} \frac{4}{7}$. Express the answer as a mixed number in lowest terms.
- 21. Write the number 5,401 in expanded form.
- 22. Convert 30.28 L to gallons using the unit conversion 1 gal = 3.785 L.
- 23. What is the ratio of 450 grams to $1\frac{4}{5}$ kg? Express your answer reduced to the lowest terms.
- 24. Karen spent $\frac{1}{3}$ of her money on rent, $\frac{1}{5}$ on food, and $\frac{1}{6}$ on services. What fraction of her money did she spend on rent, food, and services? Express your answer as a fraction in lowest terms.

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- 25. Determine the value of the missing number, , from the options provided for the following statement to be true.
 - $\frac{25}{3} < \frac{25}{3} < \frac{52}{4}$
 - a. 1
 - b. 5
 - c. 2
 - d. 7
- 26. Eric's monthly salary is \$3,800. If Sally's salary is 12% more than Eric's, what is Sally's monthly salary?
- 27. Angela's weight reduced from 90 kg to 76.5 kg in six months. What is the percent decrease in her weight?
- 28. Evaluate: $(7 3)^8 \times 4^3 \div (2^3 2^2)^9$
- 29. Arrange the following measurements in order from largest to smallest: 3 km, 5,000 m, 400,000 cm
- 30. A car travels $4\frac{2}{3}$ km with $\frac{2}{3}$ liters of gas. If the gas consumption remains unchanged, how many kilometres can it travel using $30\frac{1}{4}$ liters of gas? Express your answer as a mixed number in lowest terms.
- 31. A bottle has a 350 mL capacity. How many bottles are required to hold 2.8 L?
- 32. Determine the value of the missing digit, from the options provided, for the following statement to be true: $-374 < -3_4 < -327$
 - a. 1
 - b. 2
 - c. 4
 - d. 8
- 33. A store was selling a jacket for \$60 but Veronica bought it for \$45 online. What is the percent discount offered online?
- 34. Three flashing lights are turned on at the same time. The red light flashes every 5 seconds, the green light flashes every 8 seconds, and the white light flashes every 10 seconds. How often will all the three lights flash together?
- 35. A biology class has 18 students. There are two more girls than boys. How many boys are there in the classroom?
- 36. Lucy paid \$575 for a television after taxes. If the tax rate is 15%, what was the selling price of the television before taxes?



Answer Key

1	10 504	102
1.	10,504,	102

- 2. 14
- $\frac{9}{20}$ 3.
- 4. 35,000
- 5. 12
- 6. 15
- 7. (i) $4\frac{1}{2}$ (ii) 4.5
- 8. 40 hours
- 9. -0.102, 0.002, 0.012, 0.102
- 10. 70.063
- 11. 2xy + 4x
- 12. -9
- 13. 49
- 14. No
- 15. 3,500 words
- 16. 5x 2
- 17. 1:7
- 18. 6:4:5

- 19. 139,900
- 20. $1\frac{1}{4}$
- 21. 5,000 + 400 + 1
- 22. 8 gallons
- 23. 1:4
- 24. $\frac{7}{10}$
- 25. c
- 26. \$4,256
- 27. 15%
- 28. 16
- 29. 5,000 m, 400,000 cm, 3 km
- 30. $211\frac{3}{4}$ km
- 31. 8 bottles
- 32. c
- 33. 25%
- 34. Every 40 seconds
- 35. 8 boys
- 36. \$500