

Year 9 Zonal 2025

Y9/1. 3 members of a firm divided a profit of \$1440 among themselves in the ratio 3:4:5.

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Y9/2. Ten friends are exchanging presents for Christmas. If each friend gives one present to everyone else, how many presents were exchanged in total?

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Y9/3 Evaluate $\frac{53^2 + 53}{53}$

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Y9/4. At Tevita's birthday party, 20 people shook hands with each other once. How many handshakes were there in total?

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Y9/5. If 30% of A is 12.5% of B, then B is what percent of A?

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Y9/6. If you travel 65 km in 50 minutes, what is your speed in km/h?

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Y9/7. The average of six numbers is 5. A seventh number is added and the new average is 6.

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Y9/8. Working alone, a man can clean a house in 6 days. Working with his son, they can clean in 4 days. How long , in days, would it take the son to clean the house if he worked alone?

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Y9/9. Simplify $3x - 5y - 3(2x - 6y) + y$

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Y9/10. In how many different ways can 5 books be arranged in a row if 2 specified books must be together?

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Y9/11. Among the 200 students at a school, 100 play rugby, 50 play only soccer and 30 play both sports. How many students play neither rugby nor soccer?

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Y9/12. A car travels at a constant speed of 30 km/h. A bus starts 100 km behind the car and catches up to the car in 5 hours. What is the average speed of the bus in km/h?

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Y9/13. How many integers satisfy $2 \leq |x| < 10$

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Y9/14. What is the volume of a rectangular box if the areas of three mutually adjacent faces are 18cm, 15cm, and 30cm?

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Y9/15. How many primes are less than 120?

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Y9/16. At a Haroon's hardware 3 hammers and 4 screwdrivers cost \$148 while 4 hammers and 3 screwdrivers cost \$160.

How much does 1 hammer and 1 screwdriver cost?

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Y9/18. Simplify $x^0 + 4^0 + 8x^0 \times \left(\frac{2}{3}\right)^{-3}$

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Y9/19. What is the size of the smaller angle between the hour and minute hands of a clock at 11:22?

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Y9/20. A right square pyramid has a square base with side length 5 cm and altitude of 15 cm.

Calculate the volume of the pyramid in cm^3 .

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