

Year 9 Zonal 2026

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Y9/2. Oranges are bought at **8 for \$12** and sold at **5 for \$10**.

If **104 oranges** are bought and sold, find the **total profit**.

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Y9/3 Ali, Jone, and Pita can complete a job in **18 days, 12 days, and 9 days**, respectively. If they all work together, **how many days will they take to finish the job?**

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Y9/4. A refrigerator has a cash price of \$3,600. Mere buys it on hire purchase. She pays a 10% deposit and \$150 per month for 2 years.

Find the interest she pays.

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Y9/5. At a conference, 10 people are present. If each person shakes hands with every other person exactly once, how many handshakes will take place?

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Y9/6. What is the size of the smaller angle between the hour and minute hands of a clock at 9:30?

Y9/7. Make r the subject of $V = \frac{1}{3}\pi r^2 h$. Give your answer in the simplest form.

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Y9/8. Simplify $(-p^2)^3 + p^5 \div p^{-1} \div \frac{1}{6}$

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Y 9/9. Simplify $x^2 + 5xy - x(x - 6y) + y$

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Y9/10. **8 painters** can paint **4 houses** in **10 days**. How many painters are needed to paint **6 houses** in **8 days**?

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Y9/11. **5 litres of 12% sugar solution** are added to **5 litres of 8% sugar solution**.

What is the percentage of sugar in the final mixture?

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Y9/13. A mother is 24 years older than her daughter.

After 4 years, the mother will be three times as old as her daughter.

Find the sum of their present ages.

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Y9/15. A circular pool with a radius of 10 has a circular walkway constructed around it with a width of 1. Find the area of the walkway in terms of π ,

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Y9/16. A phone is sold for **\$360** at a **10% loss**.

What should be the selling price to make a **25% profit**?

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Y9/19. Two towns **A and B are 300 km apart**. A car leaves town A at **8:00 am** travelling at **60 km/h**. Another car leaves town B at **9:00 am** travelling towards A at **90 km/h**.
At what time will they meet?

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Y9/20. If **4 times a certain number is subtracted from 30**, the result is **6 less than the number**.
Find the number

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