

Year 8 Zonal 2026

Y8/1. Let $A = -6 + 6 - 10$

$$B = -412 \div 4$$

What is the value of $A - B$?

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Y8/3. A bus travels at 55 km/h for 3 hours. It then increases its speed for the next 2 hours. If the total distance travelled is 320 km, what is the speed of the bus during the last 2 hours in km/h?

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Y8/4. A fair dice is rolled once.

What is the probability of rolling a prime number? Simplify your answer.

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Y8/5 The average of 7 numbers is 32.The average of the first 4 numbers is 26.

What is the average of the last 3 numbers?

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Y8/6 A number is first decreased by one-quarter of its original value. The resulting number is then decreased by one-third. If the final value is 40, what was the original number?

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Y8/7 9 workers can paint a building in 18 days. How many days would it take 3 workers to paint the same building?

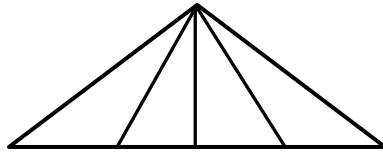
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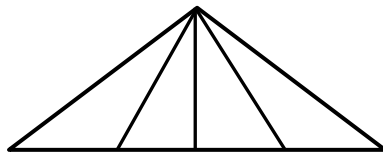
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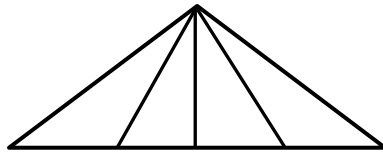
Y8/8 How many triangles can be found in this diagram?



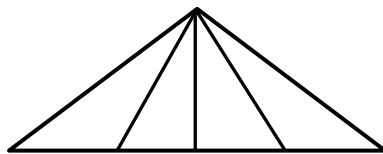
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Y8/9. Mia can finish a job in 2 hours. Leo can finish the same job in 6 hours. If they work together, how long will the job take? Give your answer in hours and minutes

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Y8/11. Five cards contain the digits **2, 8, 1, 2, and 3**. The cards are arranged to form different five-digit numbers. Find the **difference between the largest even number and the smallest odd number** that can be formed using all the digits.

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Y8/12. A number is multiplied by 4 and then 12 is subtracted. The result is 68.

Find the number.

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Y8/13 The sum of 3 consecutive integers is 354. Find the smallest integer.

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How much did the customer save?

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Y8/15. A farmer has a mixture of chickens and cows on his farm. There are **30 animals altogether** and the total number of legs is **100**. How many cows are on the farm?

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Y8/16. A farmer uses $\frac{2}{5}$ of his land for crops and $\frac{1}{4}$ for animals. If the remaining land is 14 hectares, what is the total area of the farm in hectares?

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Y8/17 A four-digit number has:

- the thousands digit is twice the hundreds digit
- the tens digit is 4 less than the hundreds digit
- the ones digit is 3 more than the tens digit
- the digits add up to 15

Find the number.

Y8/17 A four-digit number has:

- the thousands digit is twice the hundreds digit
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Y8/19 A triangle has one vertex at $(-5, 8)$. The triangle is translated 11 units right and 13 units down. What are the new coordinates of this vertex?

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Y8/20 A laptop costs \$800.

The price is increased by 15% and then discounted by 10%.

What is the final price of the laptop?

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