

Year 8 Zonal 2025

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Y8/3. Taxi fares in a country are charged at the rate of 15 cents for every 100 metres plus a flat charge of \$1.20. What is the total fare , in dollars, for a journey 4.2 km long?

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Y8/4. What is 24 minutes as a percentage of 1 hour?

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Y8/5 Two men can complete a job in 10 days. How many days will it take five men to complete the same job if they work at the same rate?

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Y8/6. A wooden cube is painted and is then cut into 27 smaller cubes.

How many small cubes have one painted face?

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What is the capacity of the tank in litres?

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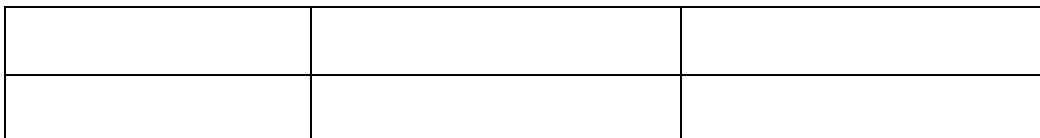
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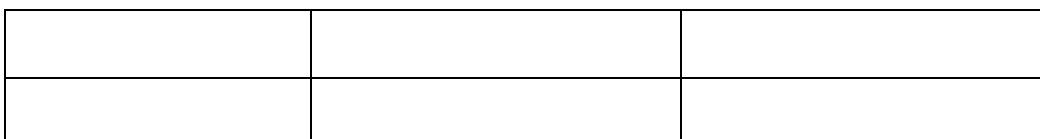
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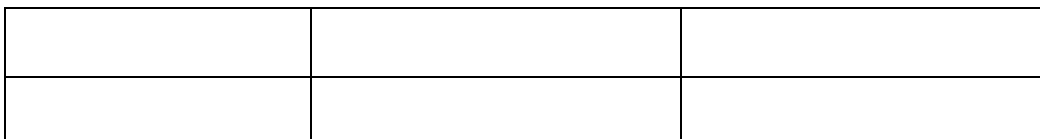
Y8/8 How many rectangles can be found in this diagram?



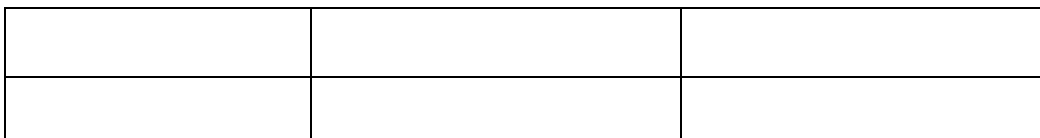
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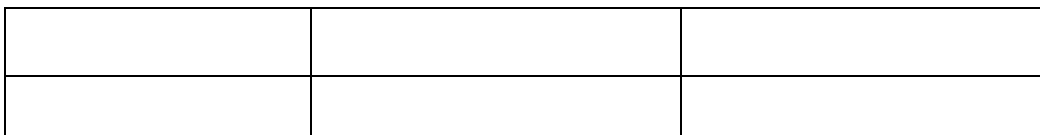
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Y8/9 Semi paddles his boat at a constant speed of 2 km/h and the river flows at a constant speed of 1 km/h. How far, in km, will he travel downstream in 2 hours and 20 minutes?

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Y8/10 A goat is tied to the corner of a 8m by 6 m shed by a 10 m rope. Assuming that the surrounding outside the shed has grass and can be grazed, what is the area, in m^2 , that can be grazed by the goat? Use $\pi = 3$

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Y8/12 A farmyard has chickens and cows. The total number of heads is 64 and total number of legs is 220. How many chickens are in the farm?

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Y8/13. A train 900m long is travelling at 20m/s. How long, in minutes, will it take to pass completely through a 1500 m tunnel?

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Y8/14. If 30% of A is 12.5% of B, then B is what percent of A?

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Y8/15. If 8 teachers can mark 8 papers in 8 minutes, how long in minutes will it take 100 teachers to mark 200 papers?

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Y8/16. Five 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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Y8/17. If you travel 65 km in 50 minutes, what is your speed in km/h?

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Y8/19 A tiler charged \$500 to tile a rectangular kitchen floor. How much should be charged (at the same rate) to tile another twice as long and twice as wide?

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Y8/20 When a number is divided by $\frac{3}{4}$ and then 4 is subtracted from the result the answer is 14.

What is the number?

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