

Year 7 Zonal 2025

Y7/1. If 7:18 p.m. was 16 minutes ago, in how many minutes will it be 8:00 p.m.?

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Y7/2. In a school of 600 girls and 700 boys, 60 girls and 140 boys were awarded prizes in a competition. What fraction, in simplest form, of the students were awarded with the prizes?

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Y7/3. The sum of 3 consecutive integers is 48. Find the smallest integer.

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Y7/4. A $4\text{ cm} \times 4\text{ cm} \times 4\text{ cm}$ cube is painted and is then cut into small $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ cube.

How many $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ cubes have one painted face?

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Y7/5 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 will he travel downstream in 2 hours and 30 minutes?

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Y7/6. One day, Kritesh painted his house at a constant rate. By 1.10 pm he had painted $\frac{1}{2}$ of the house. By 1.40 pm he had painted $\frac{3}{4}$ of the house. When did Kritesh start painting the house?

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Y7/7 The average weight of 5 boys is 70 kg and the average weight of 4 girls is 61 kg.
Calculate the average weight of 9 children in kg.

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Y7/8 A carpet 6m by 8m is placed on a floor 12m by 8.5m.

Find the area of the floor not covered by the carpet.

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Y7/9 Tina was given a large pack of sweets. She gave one sixth of the sweets to Jane. Tina then gave one thirteenth of the remaining sweets to Jasinta. Tina was left with 60 sweets. How many sweets did Tina initially have?

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Y7/10. A standard 6-sided die is rolled. What is the probability that the outcome is less than 7?

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Y7/11. What is the difference between $\frac{1}{2}$ of $\frac{1}{4}$ of 120 and $\frac{1}{3}$ of $\frac{1}{2}$ of 60?

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Y7/12 If there are six different pairs of socks in the drawer, what is the smallest number you could reach in and grab (without looking) to guarantee you have a matching pair?

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Y7/13 A car salesman receives a monthly pay of \$500 plus a bonus of \$75 for each new car he sells in excess of 15 cars per month.

What would be his pay if he sells 23 cars in one month ?

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Y7/14 How many rectangles can be found in this diagram?

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Y7/15 A farmyard has chickens and cows. The total number of heads is 50 and total number of legs is 160. How many chickens are in the farm?

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Y7/16 How many times are the hands of a clock perpendicular in a day?

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Y7/17 Find the 7th term in the sequence whose first two terms are 2 and 5 and each term beyond the second is the sum of the immediate two preceding terms.

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Y7/18 A park shaped like a circle has streetlights every 8 metres around the park. If there are 31 streetlights in total, what is the circumference of the park in metres?

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Y7/18 A park shaped like a circle has streetlights every 8 metres around the park. If there are 31 streetlights in total, what is the circumference of the park in metres?

Y7/19 Taxi fares in a country are charged at the rate of 15 cents for every 100 metres plus a flat charge of \$1.50. What is the total fare for a journey 4.2 km long?

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Y7/20 When a number is divided by 3 and then 5 is subtracted from the result the answer is $3\frac{1}{3}$.

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