

## Year 6 Finals 2024

Y6/1. The sum of ten numbers is 2624. If one of the ten numbers is changed from 456 to 654, what is the new sum?

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Y6/2. Ben can do a job working alone in 10 hours. Den can do the same job alone in 15 hours. If they both work together, in how many hours will the job be done?

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Y6/3. Find the extra time, in hours, that would take to cover a distance of 300 km at 30km/h instead of 60 km/h.

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Y6/4. What is the time 58 minutes before 5.34 pm?

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Y6/5 How many rectangles can be found in this diagram?



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Y6/6. How many times between noon and midnight are the hands of the clock perpendicular to each other?

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Y6/7. A painter has finished painting  $\frac{2}{3}$  of a room by 1:00 pm and  $\frac{3}{4}$  of the same room by 1:30 pm. At this rate, when does he finish painting the room?

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Y6/8 A magic square is shown below. The sum of the numbers in any row, column or diagonal must be same.

What is the value of P?

16		P
11		15
12		

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Y6/9 If it takes Raj 12 minutes to cut a board into four pieces, how long in minutes would it take him to cut the same type board into 12 pieces?

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Y6/10 Ten friends ate at a restaurant and agreed to share the bill equally. Anna forgot her money, so each of her nine friends paid an extra \$4 to cover her portion of the total bill. What was the total bill in dollars?

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Y6/11 Each child in a family has at least five brothers and at least six sisters. What is the smallest number of children the family could have?

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Y6/12 A car 3m long is travelling at 20m/s and overtakes a 17m long truck travelling at 16m/s. How long, in seconds, does it take the car to overtake the truck?

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Y6/13 A car takes 5 hours to complete a journey when travelling at 30 km/h. How long, in hours, would the same journey take if the car were travelling at 60 km/h?

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Y6/14 The time on a digital clock is 5:55. How many minutes will pass before the clock next shows a time with all digits identical?

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Y6/15 Six small apples weigh the same as five medium apples. Six medium apples weigh the same as four large apples. How many small apples would weigh the same as 5 large apples?

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Y6/16. A farmer has 7 cows, 8 sheep and 6 goats. How many more goats should be brought so that half of her animals will be goats?

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Y6/17 A 200m by 400m rectangular field is to be fenced and posts are to be placed 5m apart. If posts are sold in bundles of 5, how many bundles of posts would be needed?

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Y6/18 A farmyard has chickens and cows. The total number of heads are 64 and total number of legs is 158. How many chickens are in the farm?

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Y6/19 Hema saved \$1420 and Malini saved \$505. After they each spent an equal amount of money, Hema had 4 times as much money as Malini. In dollars, how much did each of them spend?

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Y6/20 A train 200m long is travelling at 20m/s. How long, in minutes, will it take to pass completely through a 1000 m tunnel?

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