

Year 8 Finals 2024

Y8/1 What time is 340 minutes before 5:23 pm?

Y8/2. Evaluate $-50 + -49 + -48 + -47 + \dots + 47 + 48 + 49 + 50 + 51$

Y8/3. The sum of 2 consecutive integers is 197. Find the largest integer.

Y8/4. A car 3m long is travelling at 20m/s and overtakes a 17m long truck travelling at 15m/s.
How long , in seconds, does it take the car to overtake the truck?

Y8/5 The **cash price** of a refrigerator is \$2700. To buy this refrigerator on hire purchase, $\frac{1}{3}$ deposit is required, then monthly payments of \$200 each for 12 months.

How much more than the cash price will be paid if the refrigerator is bought on **hire purchase**?

Y8/6. A $3\text{ cm} \times 3\text{ cm} \times 3\text{ cm}$ cube is painted and is then cut into small $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ cube.

How many faces of the $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ cubes are not painted?



Y8/7 If a 8-inch diameter circular pizza serves two students, how many students should two 12-inch diameter circular pizzas serve?

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



Y8/9 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?

Y8/10 On her bicycle, Kara travelled 1.5 km in 3 minutes and 45 seconds. Find her average speed in km/h.

Y8/11 In the magic square shown, the sum of each row, column and diagonal is the same..

What is the value of **K** + **P**?

1		K	
	11	8	
		9	
16	2	P	13

Y8/12 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?

Y8/13. A rectangular piece of paper is folded in half to form a square. The area of the square is 81 cm^2 . What is the perimeter of the original rectangle in cm?

Y8/14. At a sale, 20% discount is offered on all marked prices. Mani bought a dress at this sale for \$72. How much , in dollars, did she save?

Y8/15. In his first five Maths test, John had an average score of 8. In his next two tests he scored 5 and 7 and after his eighth test his average stood at 7.5. Find his score in the eighth test?

Y8/16. In numbering the pages of a book 189 digits are used. Calculate the number of pages in the book.

Y8/17. A train 500m long is travelling at 20m/s. How long, in seconds, will it take to pass completely through a 1000 m tunnel?

Y8/18 There are 15 chickens in a pen with sufficient food for 20 days. How long would the food last if 3 chickens are removed from the pen?

Y8/19 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?

Y8/20 A bag of apples was given to a family. The father selected $\frac{1}{6}$ of the number of apples for himself. The mother selected $\frac{1}{5}$ of the remainder and the three sons selected $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$ of the successive remainders. The daughter took the remaining 7 apples.

How many apples were there in the bag?
