

Name: Class: Date:

Do all the sums. (Total: 34 Sums)

1. Find two numbers whose sum is 73 and whose difference is 21.

Ans:

2. Jane and Sue have 99 stickers altogether. Sue has 8 times the number of stickers Jane has. How many stickers does each have?

Ans:

3. When one is added to both the numerator and the denominator of a fraction, it becomes one-third. If 2 is subtracted from both the numerator and the denominator, it becomes one-fifth. Find the fraction.

Ans:

4. In 2 years' time, a mother will be 5 times as old as her daughter. 2 years ago, she was 13 times as old as her daughter. Find their present ages.

Ans:

5. The square of a number is smaller than 13 times the number by 42. Find the number.

Ans:

6. A father is now 3 times as old as his son. 4 years ago, the product of their ages was 611. Find their present ages.

Ans:

7. A man buys 75 mangoes for \$15 and sells them at a profit of 30%. Find the selling price of each mango.

Ans:

8. The cost price of an article is \$70 and it is sold for \$74.90. Find the gain per cent.

Ans:

9. A group of tourists spent \$3,200 at a shop. The tour guide who brought them there is paid a commission of \$32. Express his commission as a percentage of the sale price.

Ans:

10. An article is sold for \$680 and the salesperson is paid a commission of 15% of the sale price. Find how much commission the salesperson received.

Ans:

11. The list price of a LCD TV set is \$3,780. It is sold for \$3,213 after a discount. Find percentage discount.

Ans:

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12. An article costs \$190. Its marked price is \$226. If a discount of 5% on the marked price is given for cash payment, express the profit as a percentage of the cost price.

Ans:

13. A sum of \$16,000 deposited in a bank for a period of 6 months yields an interest of \$560. Find the interest rate.

Ans:

14. Mr Lee borrowed \$830 from a bank which charged 15% per annum simple interest. How long was the loan if the interest was \$41.50?

Ans:

15. A machine can stamp 168 bottle caps in 28 seconds. Find how many bottle caps it can stamp per second.

Ans:

16. Each ml of a liquid weighs 1.2 g. Find the weight of 110 ml of the liquid.

Ans:

17. A newspaper vendor sells 168 copies of newspapers on normal days and 126 copies on holidays. Find the ratio of the decrease during the holidays.

Ans:

18. The ratio of two sums of money is 2 : 3. The larger amount is \$360. Find the smaller amount.

Ans:

19. Find the ratio of the areas of two squares whose sides are 4 cm and 18 cm.

Ans:

20. The scale of a map is 4 cm to 5 km. Express the scale in the form 1 : n, where n is a number.

Ans:

21. Tea at \$49 per kg is mixed with tea at \$52 per kg in the ratio 1 : 3 by weight. Find the cost of 8 kg of the mixture.

Ans:

22. At an event there were 72 boys and 56 girls. Find the ratio of boys to girls at the event.

Ans:

23. A sum of \$1,440 is to be divided into two shares in the ratio 7 : 9. Find the smaller share.

Ans:

24. The ratio of the number of boys to the number of girls in a school is 3 : 4. The total number of students is 2,240. Find the number of boys and the number of girls.

Ans:

25. A man has enough money to buy 10 articles at \$7 each. Find the number of articles he can buy with the money if the price is \$14.

Ans:

26. A car consumes 12 litres of petrol for a distance of 114 km. Find how much petrol is needed for a journey of 180.5 km.

Ans:

27. Given that 36 workers can complete a job in 29 days, calculate how long 58 workers will take to complete the job.

Ans:

28. If oranges are sold at \$5 for 10, find the the number of oranges I can buy with \$4.50.

Ans:

29. The area of triangle XYZ is 32 cm^2 . Given that $XY = YZ$ and angle $Y = 90^\circ$, find XY.

Ans:

30. In triangle PQR, $PQ = 18 \text{ cm}$, $QR = 20 \text{ cm}$, PQR is a right angle and $PR = 26.9 \text{ cm}$. Find the area of the triangle.

Ans:

31. Find the height of a solid cylinder with a diameter of 14 cm and a total surface area of 352 cm^2 . [Take $\pi = 22/7$].

Ans:

32. Find the total surface area of a closed cylinder with a height of 2 cm and a radius of 12 cm. [Take $\pi = 22/7$].

Ans:

33. A metal pipe 70 cm long has an external diameter of 10 cm. It is made of metal 2 mm thick. Find the volume of metal in the pipe. [Take $\pi = 3.14$].

Ans:

34. A metal pipe 80 cm long has an external diameter of 12 cm. It is made of metal 2 mm thick. Find the volume of metal in the pipe. [Take $\pi = 3.14$].

Ans: