

Math Summer Packet for Incoming Freshmen

Name:

Date:

1. Find the difference:

$$7,633 - 4,569 = ?$$

2. Find the sum:

$$155 + 25 + 171 + 163 = ?$$

3. Joey works 20 hours a week. If he works for 10 months continually, how many hours will he have worked? (*1 month = 4 weeks*)

4. Find the quotient:

$$\frac{7}{9} \div \frac{21}{27} = ?$$

5. Find the quotient and remainder:

$$5,897 \div 24 = ?$$

6. Alice earned \$622.50 in interest on her savings in the bank. Before interest, the account had \$12,450. What is the approximate percent she earned in interest?

7. How many deciliters equal 35 kiloliters? (*1 kiloliter = 10,000 deciliters*)

8. A group of science students is studying bacteria structure. The sample needs to be magnified 60 times in order for students to identify the key

features. If an actual sample is 3 millimeters long, how many centimeters long is the magnified image? (*1 millimeter = 0.1 centimeter*)

9. Find the product:

$$76.7 \times 26.9 = ?$$

10. The table shows numbers with the ratio $x : y$. Find the missing number.

x	4	?	36	42
y	20	120	180	210

11. Find the sum:

$$283.65 + 85.3 = ?$$

12. How many yards equal 134 meters? (*1 meter = 1.0989 yards*)

13. Find the least common multiple of 12 and 15.

14. Find the product:

$$19 \times 18 = ?$$

15. If it was 50°F outside, what was the temperature in degrees Celsius?

$$(C = \frac{5}{9}(F - 32))$$

16. Nancy's 50 meter freestyle swim time was 28.004 seconds. Betty's 50meter freestyle swim time was 27.949 seconds. What was the difference between Nancy's and Betty's swim times?

17. John studied for 22.5 hours over a period of 3.5 days. On average, about how many hours did he study each day?

18. Alice bought $\frac{8}{9}$ of a pound of grapes and ate $\frac{1}{3}$ of a pound. How many pounds were left?

19. The jogging track $\frac{5}{9}$ is of a mile long. If Ashley jogged around it 4 times, how far did she run?

20. Anna is weighing packages she is going to mail. They weigh 15.6 ounces, 13.25 ounces, 8.6 ounces, 9.75 ounces, and 18.23 ounces. Estimate the total weight of the five packages.

21. In which place is the digit 6 in this number?
563,891,712

22. Find the quotient:
 $129.5 \div 14 = ?$

23. How many fluid ounces equal 47 gallons? (*1 gallon = 128 fluid ounces*)

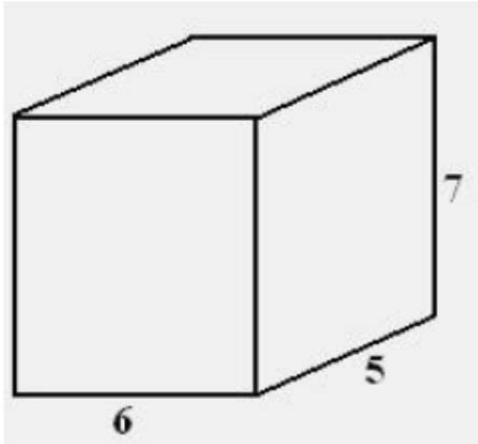
24. The annual profit of the neighborhood music store was \$335,899 last year. This year the profit was 12% higher. What was this year's profit?

25. Find the sum:

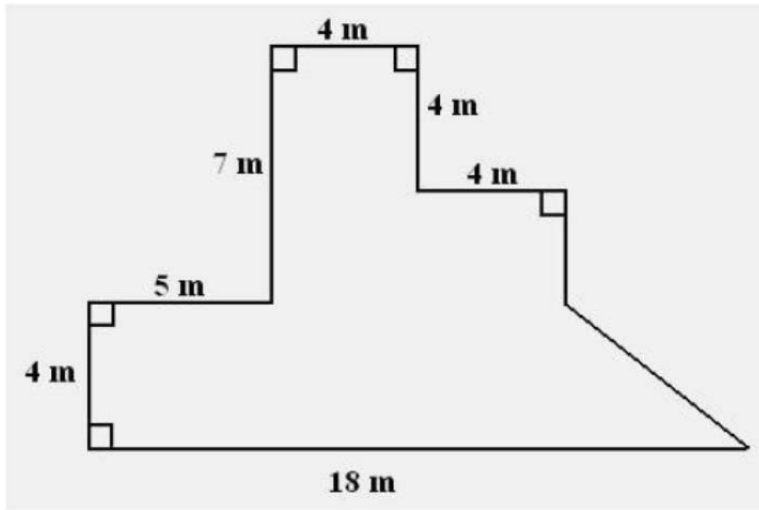
$$\frac{16}{9} + \frac{4}{36} = ?$$

26. Rewrite $\frac{5}{16} + \frac{6}{20}$ with a common denominator.

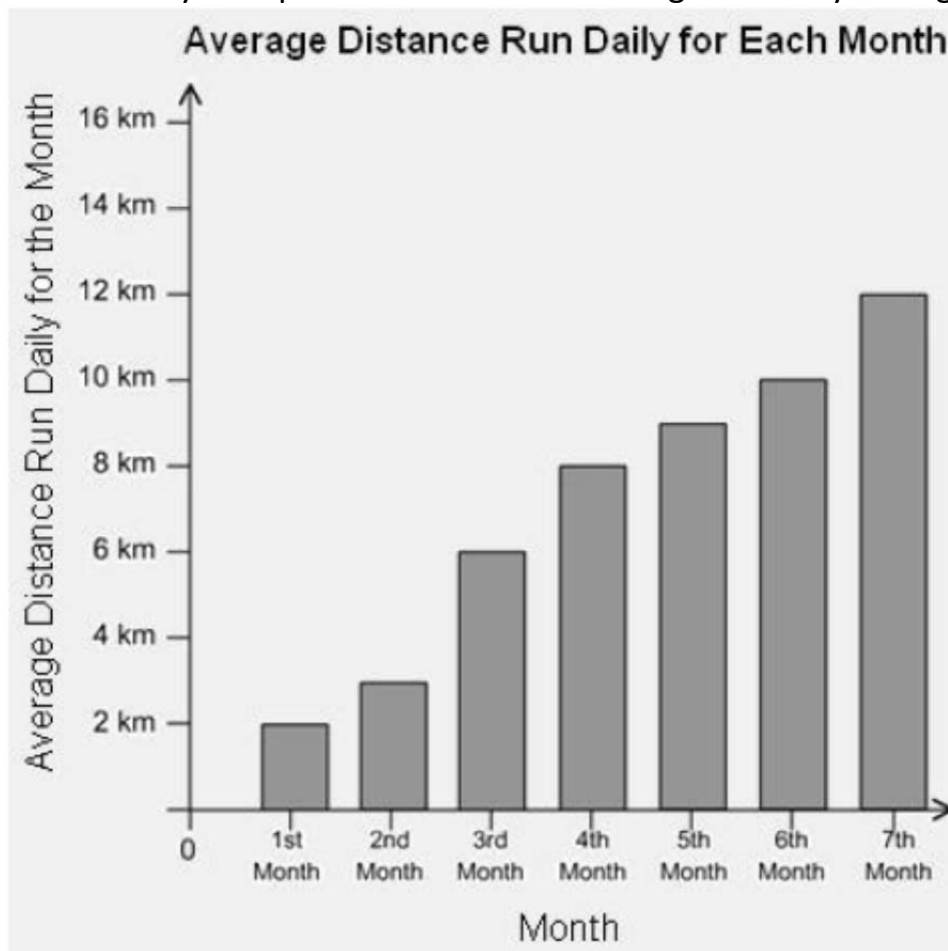
27. Find the volume of the rectangular prism.



28. Find the area of the figure shown.



29. Sean runs every day to train for a marathon. The graph shows the average distance Sean runs each day during a given month. If Sean continues this trend, how far do you expect Sean to run on average each day during the eighth month?



30. Express $9 \times 9 \times 9 \times 9 \times 9$ in exponential form.

31. Solve the inequality for b :

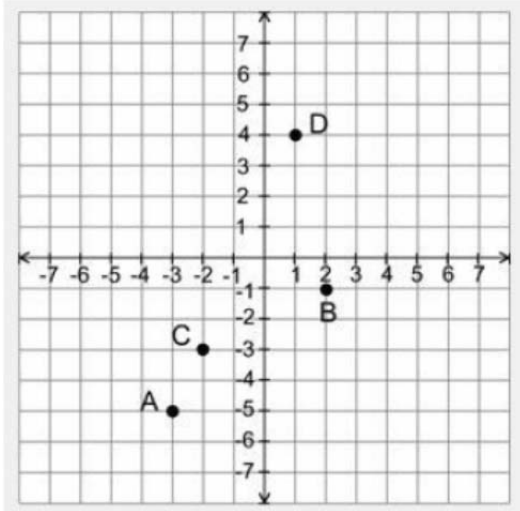
$$5b \leq -15$$

32. Stella is going home for vacation. The table shows the number of miles she has left to drive after each hour.

Hours Driven	Miles Left
1	450
2	395
3	340
4	285
5	230
6	175
7	120
8	65
9	?

If she covers the same distance every hour, how many miles would remain after 9 hours?

33. Use this coordinate plane to determine at which point the ordered pair $(-2, -3)$ is located.



34. The rectangle shown has a length (l) of 8 and a width (w) of 6.2. A second rectangle has a length of $l + 2.5$ and a width of $w - 1.4$. Find the area of the SECOND rectangle.

