

Summer Math Requirements

During the relaxing and fun days of summer, our hope is for the students to keep their academic skills sharp for when they return in the fall. For math, students will need to login to www.ixl.com to complete the assignments. Most login id's are the students' first initial and last name followed by @inc. Passwords are the number code they have on their ID badge. **All of the below ixl are under sixth grade standards.** Teachers receive weekly reports showing who has and has not completed the work so students do not need to do anything to document that they did the work. The report will automatically show who has completed the work, when the work was completed, what work was completed, and how the student performed.

Complete the following sections with a score of **90** by June 30th:

- Z.3 Write an equation from words
- Z.7 Solve one-step equations with decimals, fractions, and mixed numbers
- O.8 Add, subtract, multiply, divide fractions: word problems

Complete the following sections with a score of **90** by July 31st:

- H.7 Division with decimal quotients
- X. 6 Follow directions on a coordinate grid
- S.5 Percent of a number: word problems

Complete the following packet by August 30th.

Students are more than welcome (and highly encouraged) to complete more sections than the sections required on the list. Additional books with summer review are also available at most book stores and United Art and Education that provide summer "bridging" work for each grade level. These are another good resource for students.

Happy Math and Happy Summer!

Complete the following test items.

- ① There are three hundred thousand, two hundred, fifty two people living in Cincinnati. How would you write this number in standard form? _____

- ② Jerry is collecting newspapers for a recycling contest at his school. He needs 2,152 newspapers to win the contest. So far he has collected 1,375. Rounding to the nearest thousand, how many newspapers can we estimate that Jerry still needs to collect? _____

Calculate.

③
$$\begin{array}{r} 27 \\ \times 17 \\ \hline \end{array}$$

④
$$\begin{array}{r} 9 \\ \times 56 \\ \hline \end{array}$$

⑤
$$\begin{array}{r} 72 \\ \times 81 \\ \hline \end{array}$$

⑥
$$\begin{array}{r} 32 \\ \times 28 \\ \hline \end{array}$$

- ⑦ Marcia bought 13 apple pies for her class, but her classmates only ate half of each pie. How would Marcia express the amount of remaining apple pie as an improper fraction? _____

Calculate.

⑧
$$\begin{array}{r} \$29.81 \\ \$14.33 \\ + \$31.11 \\ \hline \end{array}$$

⑨
$$\begin{array}{r} \$109.45 \\ - \$25.76 \\ \hline \end{array}$$

⑩
$$\begin{array}{r} \$3.43 \\ + \$7.07 \\ \hline \end{array}$$

⑪
$$\begin{array}{r} \$56.01 \\ + \$110.86 \\ \hline \end{array}$$

- ⑫ Ellen has been measuring the amount of snowfall for the last three months. She measured 1.262 inches in November, 1.794 inches in December, and 2.115 inches in January. Rounding to the nearest tenth of an inch, what was the total amount of snowfall during these three months? _____

Calculate.

⑬ $79 \overline{)1591}$

⑭ $35 \overline{)630}$

⑮ $15 \overline{)78}$

⑯ $12 \overline{)160}$

- ⑰ Marvin is mixing the paint he will use to paint his living room. The directions call for him to mix 23.75 milliliters of black paint and 9.20 milliliters of white paint to achieve the correct shade of grey. How much black paint and how much white paint will he need in order to apply four coats of paint? _____

About how much of the grey paint will he be making? _____

Name _____

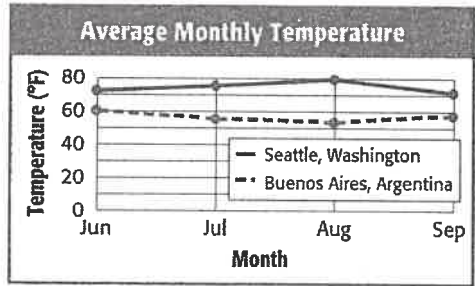
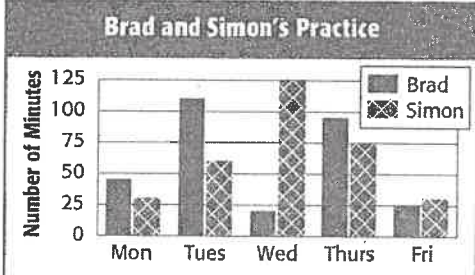
- 18 What is 40% of 150? _____
- 19 What is 20% of $\frac{4}{5}$? Express the number in both decimal and fraction form.

20 Julia has a length of rope that is $17\frac{1}{4}$ meters long. If thirty percent of the rope's length has been painted blue, what length of the rope is not blue? _____

21 Put the following decimals in order from least to greatest: .0245, .06, .0003, .75, .029, .9, .0019, 3.084, .0925, .21

22 Rob bought a scale that records weight digitally. His small luggage bag weighs 10.279 kilograms, his laptop bag weighs 15.653 kilograms, his clothing bag weighs 25.455 kilograms, and his large bag weighs 35.350 kilograms. What is the total weight of the four bags, in kilograms?

If a passenger is only allowed to carry 90 kilograms of luggage onto a flight, will Rob's luggage exceed the limit? _____



- 23 The chart shows how much time Brad and Simon spent practicing the clarinet last week. On which day did Brad practice for 95 minutes? _____
- 24 Which city is colder in June? _____

On which day did Simon practice 105 minutes longer than Brad? _____

During which month is the difference in temperature the greatest? _____

25 Frank is looking at a solid figure that has two circular ends. It also has curved sides. What shape is he looking at?

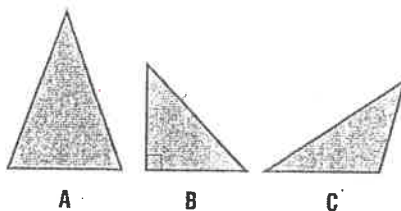
- 26 Tyler puts 5 nickels, 3 dimes, and 10 pennies into a hat. If you were to reach into that hat, what is the probability that you would pick a penny? _____ A dime? _____ A nickel? _____

- 27 Which of the following triangles is

obtuse? _____

right? _____

acute? _____



- 28 Calculate the following expression: $3 + (7 - 2)^2 + 4(5 + 3) - 6(6) =$ _____

- 29 Write the following number using scientific notation: 2,345,836.0071.
- _____

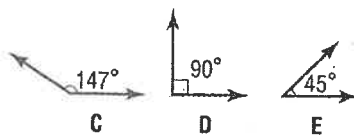
- 30 Michael collects postcards and state flags. His collection consists of 3 postcards and 1 flag from New Hampshire, 5 postcards and 2 flags from Florida, and 7 postcards from Ohio. If each postcard costs \$.50 and each flag costs \$4.50, how much did Michael spend for his collection? _____

- 31 Which of the following angles is

acute? _____

right? _____

obtuse? _____



- 32 $28 \div .25 =$ _____

33 $.3606 \div .06 =$ _____

34 What is $\frac{22}{31} \div 7$? _____

35 What is $18 \div \frac{4}{15}$? _____

36 What is $\frac{38}{51} \div \frac{19}{17}$? _____

37 Latasha is in charge of providing bottled water and trail mix for her class field trip. Each student will be carrying $\frac{3}{5}$ liters of water and $\frac{1}{4}$ pound of trail mix during the trip. If there are 35 students on the trip, how much water and trail mix should Latasha bring for the class? _____

38 Last week Matthew spent $5\frac{1}{6}$ hours repairing his bike over a period of $3\frac{1}{3}$ days. How many hours a day, on average, did Matthew spend working on his bike? _____

39 What is the decimal form of $9\frac{3}{8}$? _____ 40 What is the fraction form of 3.6? _____

41 Daniel is making chocolate chip cookies for his classmates at school. Each batch requires $3\frac{2}{3}$ cups of sugar and $\frac{1}{3}$ of a bag of chocolate chips. If Daniel makes 4 batches of cookies, how many cups of sugar and how many bags of chocolate chips will he use? _____

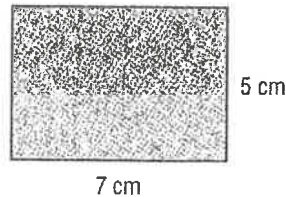
42 What is $\frac{1}{3}$ of 72%? _____

43 What is 60% of $\frac{1}{4}$
in decimal form? _____
in fraction form? _____

44 What is the perimeter and area of the figure?

Perimeter _____

Area _____



45 One inch is equivalent to 2.54 centimeters.
How many inches is 4 meters?
How many centimeters are in 254 inches?

_____ inches = 4 meters

254 inches = _____ centimeters