Cranford Public Schools

Summer Math Practice

Students Entering 5th Grade

Parent(s) / Guardian(s),

Summer is a time for relaxation and rejuvenation for children as they grow older and prepare for their next grade level. It can also be a time that students start to forget lessons learned throughout the school year. To help keep ideas fresh in their mind, we have prepared a practice packet of skills that they should be familiar with for the upcoming year. We also suggest that students frequently practice their fact fluency in addition, subtraction, and multiplication. In addition to the problems in the packet we are also providing a list of apps and websites that you may choose to use with your child. Students often enjoy these as they may be more game-based opposed to a worksheet. We strongly suggest returning this completed packet back to school in September.
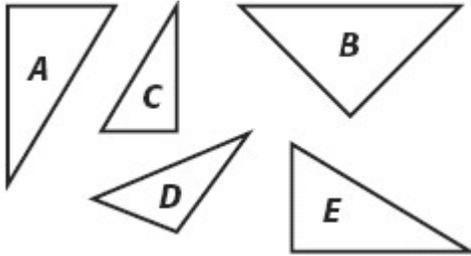
Websites
https://www.khanacademy.org/
https://www.mathplayground.com/
https://www.splashmath.com/
https://www.ixl.com/
https://xtramath.org/#/home/index
https://www.funbrain.com/
https://www.aaamath.com/
https://www.mathsisfun.com/

Name _____

Multiple Choice

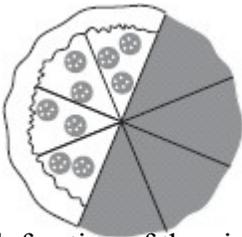1. Which two figures below appear to be congruent?

   a. figures *A* and *B*   c. figures *A* and *E*

   b. figures *C* and *E*   d. figures *B* and *D*

2. Which digit is in the tens place in the number 7,308?

   a. 0   b. 3   c. 7   d. 8

3. Dora cuts her pizza into 8 equal slices. She eats 4 of the slices.

   Which fraction of the pizza is left?

   a.   b.   c.   d.

   $\dfrac{1}{2}$ $\dfrac{1}{8}$ $\dfrac{1}{4}$ $\dfrac{4}{4}$

4. Which symbol makes the sentence true?

   $12 + 6$ ⬭ $8 + 9$

   a. >   b. <   c. =   d. ?

5. Which unit is the **best** one to use to measure the mass of a bicycle?

   a. meter   b. gram   c. liter   d. kilogram

6. MaryAnn recorded the color of each vehicle that passed by her house. The tally chart below shows her results.

Color of Vehicles	
Color	Number of Vehicles
Silver	ҤҤ ҤҤ ҤҤ l
Red	ҤҤ ll
Blue	ҤҤ ҤҤ lll
Black	ҤҤ llll

How many vehicles did MaryAnn record on her tally chart?

a. 13   b. 45   c. 55   d. 86

7. Which is the **best** estimate for the capacity of a kitchen sink?

a. 2 milliliters   b. 2 liters   c. 6 milliliters   d. 6 liters

8. Which statement is always true?

a. A square has 4 right angles.   c. A parallelogram has 2 right angles.

b. A trapezoid has 1 obtuse angle.   d. A rectangle has 4 acute angles.
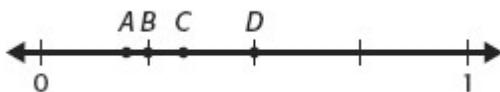
9. Tamika wrote the following number pattern.

1, 5, 9, 13, 17, 21

Which would be the next number in Tamika's pattern?

a. 22   b. 23   c. 24   d. 25

10. Which symbol makes the number sentence true?

9 ◯ 3 = 27

a. +   b. -   c. $\times$ d. $\div$

11. Which point on the number line marks $\frac{1}{3}$?

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        A B  C     D
   +----+-+--+-----+------+----+--->
   0                      1
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a. Point A   b. Point B   c. Point C   d. Point D

12. The I-95 is 641 miles long. Which is another way to show the number 641?

   a. $6 + 4 + 1$ c. $600 + 40 + 1$

   b. $6 + 40 + 100$ d. $600 + 400 + 10$
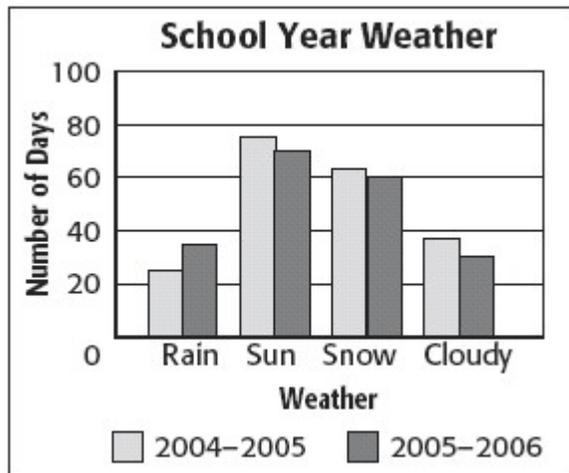
13. Which is the rule to find each Output number?

Input	Output
1	4
2	8
3	12
4	16
5	20

   a. Multiply by 1.   c. Divide by 4.

   b. Multiply by 4.   d. Add 4.

14. There are 468 subway stations in New York City. What is this number rounded to the nearest hundred?

   a. 400   b. 460   c. 470   d. 500

15. The graph below represents the weather for two school years.

Which statement about the graph is true?

   a. It rained more in 2004-2005 than in 2005-2006.

   b. There were more sunny days in 2004-2005 than in 2005-2006.

   c. There were more snowy days in 2005-2006 than in 2004-2005.

   d. There were more rainy days in 2004-2005 than cloudy days in 2004-2005.

16. Thomas wrote the following division sentence.

$48 \div 6 = 8$

Which number sentence can Thomas use to check whether his division sentence is correct?

   a. $6 + 8 = \square$ b. $8 \times 6 = \square$ c. $8 \div 6 = \square$ d. $48 - 8 = \square$

17. Daniel surveyed his classmates.

    The results of his survey are shown in the tally chart below.

Number of Siblings	Students
0	ЖЖ
1	ЖЖ ЖЖ ||
2	ЖЖ |||
3	ЖЖ	
4+	||

    Which survey question did he most likely ask?

    a. Do you have any siblings?

    b. How many siblings do you have?

    c. How old are your siblings?

    d. How many people are in your family?

18. Which unit **best** measures the length of a pencil?

    a. centimeter   b. meter   c. kilometer   d. liter

19. Which sentence can be used to describe the picture below?

    a. $15 - 5 = 10$ b. $15 \times 3 = 45$ c. $3 + 5 = 8$ d. $15 \div 3 = 5$

20. Gene's family drove from Bear, Delaware, to San Diego, California. They drove between 2,871 miles and 2,891 miles. Which could be the distance they drove?

    a. 2,817 miles   b. 2,819 miles   c. 2,878 miles   d. 2,897 miles

Short Answer

21. Naomi bought a scarf for $12.50 and a hat for $5.80. She gave the cashier $20.00. How much money did Naomi receive in change? *Show your work.*

22. Amrita biked 30 miles each day for 5 days. How many miles did Amrita bike in all? *Show your work.*

23. Mr. Yazzie wants to know how the elevation changes on the trail at Mount Marcy. The trail begins at 2,146 feet and ends at an elevation of 5,344 feet. How much does the elevation of the trail change? *Show your work.*

24. Each day, Zoe drives from her home in Newark to her office in Wilmington. The trip is 6 miles one way. If Zoe goes back and forth to work each day, how many miles does she drive in 5 workdays? *Show your work.*

25. Mr. Sanchez has 75 pretzels and 7 plastic bags. He places 10 pretzels in each plastic bag. How many pretzels does Mr. Sanchez have left over? *Show your work.*

26. Jerome is making 6 holiday pies. He uses 7 apples in each pie.

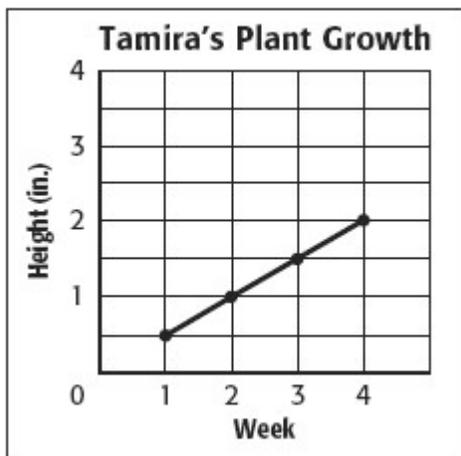What is the total number of apples Jerome uses? *Show your work.*

27. Sabine uses the calendar below.

November						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

a. Thanksgiving Day is always celebrated on the fourth Thursday of November. What is the date of Thanksgiving Day on Sabine's calendar?

b. Sabine's cousin Luz is coming to visit on November 9. Luz will stay exactly 2 weeks and then return home. On what date will Luz go back home?

28. The line graph shows the growth, in inches, of Tamira's plant.

a. About how many inches does Tamira's plant grow each week?

b. If the plant grows at the same rate, how tall will it be in Week 6?

29. Erica rode 7 miles on her bike. Her sister bikes 12 times as many miles. How many miles did Erica's sister ride her bike?

30. A video game company sold 6,876 copies of its new game on the first day and 4,984 copies on the second day. In those two days how many copies of the game did the company sell?

31. Emma read 54 pages of her book last weekend. This week she read 6 times as many pages. How many pages did Emma read this weekend?

32. A rectangular array of cabbage plants in a field has 6,489 plants arranged in 7 rows. How many columns are in the array? Explain your reasoning.

33. Marbles are arranged in an array that has 418 columns and 8 rows. How many total marbles are in the array?

34. Alexa has 27 non-fiction books, 15 cookbooks, and 14 fiction books. If 7 books fit on each shelf, how many shelves will Alexa need?.

35. Alex and Leo set up 9 tables for a party. They put 6 chairs at each table. How many empty chairs will there be if Alex and Leo attend the party with 47 other guests.

36. Jake sold 49 boxes of candy for a fundraiser. Melanie sold 14 fewer boxes than Jake. How many more boxes of candy does Melanie need to sell to have sold 80 boxes of candy?

37a. Bella went to a carnival and played a game that involved throwing a basketball into a moving basket. She had two minutes to make as many baskets as she could, and she made 53 baskets before time ran out. When she was done, she earned 2 points for each basket she made. How many points did Bella earn?

b. At the prize counter, Bella was able to buy one prize for every 5 points she earned. Bella bought as many prizes as she could with her points. How many prizes was Bella able to buy?

38. Jeff has three times as many fish as Mallory. If Jeff has 18 fish, how many fish does Mallory have?

39. Write a number that uses the same 6 digits as 901,735 but where the digit 3 represents 10 times what it represents in 901,735.

40. The area of a building is 709,650 square feet. What is this number rounded to the nearest thousand square feet?

41. Raja worked 57 hours per week for 4 weeks. Frank worked half the amount of time Raja worked. How many hours did Frank work during the 4 weeks?

42. The students in the fourth grade sold 684 erasers for a fund-raiser. They sold 4 times as many erasers as the students in the fifth grade. How many erasers did the students in the fifth grade sell?

43. Train A and train B left a train station at the same time and headed in the same direction. After five minutes, train A was $5\frac{1}{10}$ miles from the station and train B was $2\frac{7}{10}$ miles from the station. How much farther from the station is train A than train B? Show your work with an equation or a model.

44. Brooke read 3,237 pages during the fourth grade. She read 8,421 pages in fourth and fifth grades combined. How many pages did Brooke read in fifth grade?

45. The workers at a farm collected 837 chicken eggs and 9 duck eggs. The number of chicken eggs collected was how many times the number of duck eggs collected?

46. Lane rode his bike 340 miles in April. In May, he rode his bike 100 miles more than in April. Lane rode a total of 960 miles in May and June. How many miles did Lane ride in June?

47. A school auditorium has 32 rows of seats. Each row has 15 seats. How many seats are in the school auditorium?

48. Kyle swam 40 minutes on Monday, 20 minutes on Tuesday, and 30 minutes on Wednesday. Over the same days, Lavar swam for a total of 20 minutes less than Kyle. What is the total amount of time, in minutes, that Lavar swam?

49. Howard placed 100 pennies in a pile. He removed 48 pennies from the pile.
    a. Write a fraction to represent the part of the pile of pennies that Howard removed.

    b. Write a decimal to represent the part of the pile of pennies that Howard removed.

50. How many square inches of felt is needed to cover the top of a rectangular table that has a length of 92 inches and a width of 46 inches?

51. Mo bought a rectangular piece of carpet for his living room, which has an area of 96 square feet. The length of his rectangular living room is 12 feet. What is the width, in feet, of Mo's living room?

52. Mr. Bruno ordered 78 pencils for the students in his class. He ordered enough pencils for each student to have exactly 3 pencils. How many students are in Mr. Bruno's class?

53. Leah scored 26 points in a basketball game. She made 7 baskets worth 2 points each, and she also made some baskets worth 3 points each. How many 3 point baskets did Leah make in the game?

54. Jeff spends $1\frac{1}{3}$ hours playing computer games. His younger sister spends 45 minutes playing computer games. How many more minutes does Jeff spend playing computer games than his sister spends?

55. Students from three classes at Waterloo Elementary School are planning a boat trip for their field trip to Annapolis. On the trip, there will be 20 students from each class, along with 11 teachers and 13 parents. How many boats will be needed for the trip if 10 people ride in each boat?

56. Complete the table below with the decimal number that is equal to each fraction.

Fraction	Decimal Number
$\frac{18}{100}$	
$\frac{3}{10}$	
$\frac{7}{100}$	
$\frac{76}{100}$	