Incoming 4th Grade

AMERICAN MATH

SUMMER ASSIGNMENT

Hello Parents and Scholars,

The attached packet is to be completed by the first day of fourth grade, Monday, August 23rd. The review packet will be worth a quiz grade (grade will be based on accuracy). Scholars must show their work! Points will be deducted from the overall grade if work is not shown. If you have any questions, please let me know.

I hope everyone has a wonderful and safe summer!

Ms. Boxer 🙂

Solve the problems below. Please show your work in the space provided and circle, highlight or box your answers. Note: For some of the problems you may have to perform more than one operation to find your answer.

1. Use the table. Write or draw to show how you solved the problem. How many shells did the four children collect in total at the beach?

Shells Collected at the Beach	
Child	**Number of Shells**
Katie	34
Paul	15
Noah	26
Laney	21

_____ shells

2. Pet Smart will be expecting visits this week from schools for a charitable campaign. The table below shows the number of students visiting Pet Smart each day.

Day of the Week	Number of Students
Monday	346
Tuesday	518
Wednesday	608

How many students will visit Pet Smart on Monday, Tuesday, and Wednesday?

A. 814

B. 864

C. 1,126

D. 1,472

3. On Monday, 120 students signed up to plant flowers in the school's garden. On Wednesday, 18 fewer students signed up than on Monday. How many total students signed up to plant flowers on Monday and Wednesday?

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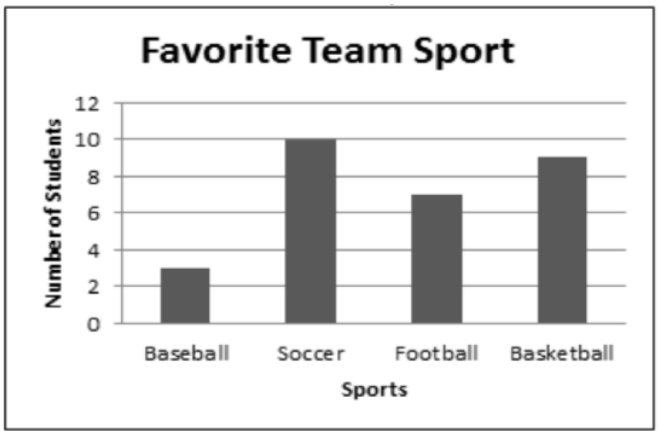
4. The students at Miami Shores Elementary want to sell 420 tickets to the school fair. They have sold 214 tickets. How many more tickets do they need to sell to reach their goal?

5. Select the responses that are equal to 334. Select all that apply.

   - 382–48
   - 660 – 346
   - 129 + 205
   - 728 – 404
   - 738 - 404

6. Anthony surveyed his classmates about their favorite team sport, as shown in the bar graph.



   How many students participated in the survey? _____

7. What is 567 rounded to the nearest hundred?

8. Derrick wants to buy 5 watermelons. Each watermelon weighs four pounds. Which of the following could he use to find the number of pounds of watermelon to buy?

- ☐ 5 + 4
- ☐ 4, 8, 12, 16, 20
- ☐ 4 + 4 + 4 + 4 + 4
- ☐ 5 + 5 + 5 + 5 + 5
- ☐ 5 x 4
- ☐ 4 + 5

9. Model and draw the multiplication equation 2 x 6 = 12, using an array.

10. Miguel has 5 shelves. Each shelf has 2 model cars and 4 model trucks. How many models are on his shelves in all?

11. Annie arranged her strawberries in rows as shown below. Which statements can help her find how many strawberries she has?

- ☐ Annie can add 4 and 4 to find the total number of strawberries.
- ☐ Annie can multiply 4 rows of 4 to find the total number of strawberries.
- ☐ Annie can add 4 + 4 + 4 + 4 to find the total number of strawberries.
- ☐ Annie can skip count by 4 six times to find the total number of strawberries.
- ☐ Annie has 12 strawberries.

12. The students are in 12 groups. Each group has 6 students. How many students are there in all? Write a multiplication equation and solve.

13. Select all expressions that could be used to find 5 x 4.

- ☐ 4 x 5
- ☐ 5 + 5 + 5
- ☐ 4 + 4 + 4 + 4 + 4
- ☐ 4 + 5
- ☐ 5 x 1

14. A bag has 750 balloons. There are 135 blue balloons and 225 white balloons. The rest are red. How many red balloons are there?

15. On Sunday, a bookstore sold 75 books. On Monday, the bookstore sold 125 books. The bookstore must sell 500 books by Friday to meet their goal. How many more books does the bookstore need to sell in order to reach their goal?

16. Jamie says that the sum of her addends is odd. Which of the following could be Jamie's addition problem? Select all that apply.

- ☐ 5 + 3
- ☐ 9 + 7
- ☐ 1 + 8
- ☐ 5 + 6

17. What is 1,245 rounded to the nearest ten?

18. Select the numbers that round to 500.

- ☐ 450
- ☐ 487
- ☐ 547
- ☐ 556
- ☐ 437
- ☐ 597

19. Find the quotients to complete the table.

Problem	Quotient
32 ÷ 8	
54 ÷ 6	
42 ÷ 7	

20. What is the value of the unknown number in the equation a x 4 = 24?

21. What is the product of 20 and 8?

22. Select all of the following equations that have 8 as the unknown number.

- ☐ $2 \times E = 8$
- ☐ $24 = E \times 4$
- ☐ $2 = 16 \div E$
- ☐ $E \times 5 = 40$
- ☐ $E \times 40 = 8$

23. The hockey club plans to have 9 teams. There were 72 students who signed up to play. How many students will be on each team?

24. Michelle bought 4 packs of thank you cards. Each pack had the same number of cards. A friend gave her 5 more cards. Now she has 37 cards in all. How many cards were in each pack she bought? (before she got 5 cards from her friend)

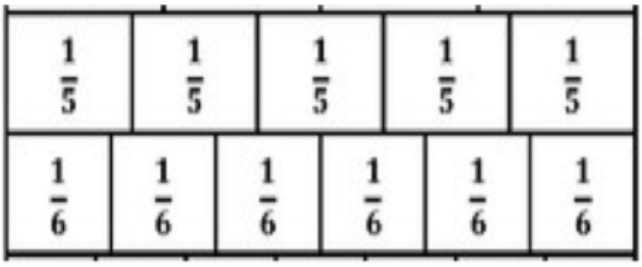
25. Gina sent 7 postcards to each of her 3 friends when she was on vacation to the Bahamas. How many postcards did Gina send altogether?

26. Mrs. Janvier is planning an end-of-the year party for her class. The table shows how many packages of cups she will need to buy for the party. Which of the following describes a pattern in the table?

Packages	2	3	4	5	6
Students	16	24	32	40	48

A. Add 14
B. Subtract 14
C. Add 8
D. Multiply by 8

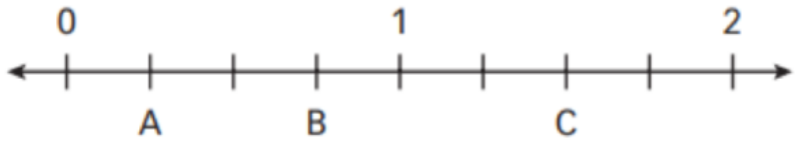
27. Talia spends $\frac{3}{5}$ of her time in drama rehearsal and $\frac{4}{6}$ training for ballet.



What does Talia spend less time doing? _____

28. What is the sum of 467 + 215 + 125?

29. Look at the number line to determine the fraction located at the following points.



Point A is located at [A. $\frac{1}{4}$ B. $\frac{3}{4}$ C. $\frac{6}{4}$] Point B is located at [A. $\frac{1}{4}$ B. $\frac{3}{4}$ C. $\frac{6}{4}$] and Point C is located at [A. $\frac{1}{4}$ B. $\frac{3}{4}$ C. $\frac{6}{4}$].

30. What fraction is equivalent to $\frac{3}{6}$?

A. $\frac{4}{2}$

B. $\frac{2}{3}$

C. $\frac{2}{4}$

D. $\frac{6}{3}$

31. Jessica and Scott are running in a marathon. Jessica runs four-sixths of a mile and Scott runs five-sixths of a mile during the marathon. Who ran more during the marathon?

32. Claudia went to the gym at 11:45 A.M. She left the gym at 12:15 P.M. How long was she at the gym?

33. Select all the objects with a mass ***less than*** 1 kilogram.

A. chair

B. earring

C. paperclip

D. toothpick

E. watermelon

34. John uses a balance scale to compare the mass of several food items.

The mass of the items on the left side of the scale is

A. <
B. >
C. =

the mass of the items on the right side of the scale.

35. What is the area of the shape?

A= _____

36. What is 727 rounded to the nearest ten?

37. Shawn's football practice starts at 5:00 P.M. It takes him 20 minutes to get to practice.

a. At what time does Shawn have to leave his house to make it to practice on time?

b. If the practice lasts 45 minutes, at what time will practice be over?

38. Gavin has a total of 72 strawberries. He wants to decorate each cake with 9 strawberries as toppings on the cake. How many cakes will Gavin bake?

39. The library received 5 boxes of books. Each box contains 20 books. So far, 18 books have been placed on the bookshelves. How many books remain in the boxes?

40. Complete the table with the missing terms. Which of the following describes a pattern in this table?

BAGS	2	3	4	5	6
COOKIES	14	21	28		

A. Multiply the number of cookies by 7
B. Add 7 cookies for each bag
C. Multiply the number of bags by 8.
D. Subtract 8 cookies for each bag

41. Each school bus has seats for 40 students. On a recent third-grade field trip, 7 buses were filled with students. How many students went on the field trip?

42. Which expression could be used to find 5 × 7?

A. (5 × 3) + (5 × 3)

B. (5 × 3) + (5 × 4)

C. (5 × 5) + (5 × 4)

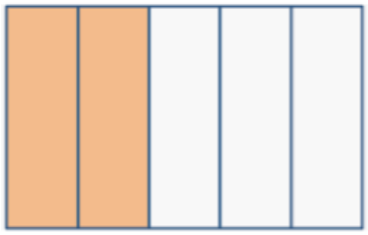
D. (5 × 3) + 4

43. A rectangle has a length of 4 inches and a width of 9 inches. What is the perimeter of the rectangle? What is the area of the rectangle?

44. Write a multiplication sentence that can be used to find the quotient of 63 divided by 7.

45. Luke had 42 marbles. He lost 7 of them. Then, he shared the rest of them equally among 5 friends. How many marbles did each friend get?

46. What fraction of the area of each rectangle is shaded. Name the fraction. Select the answer that correctly explains your answer.

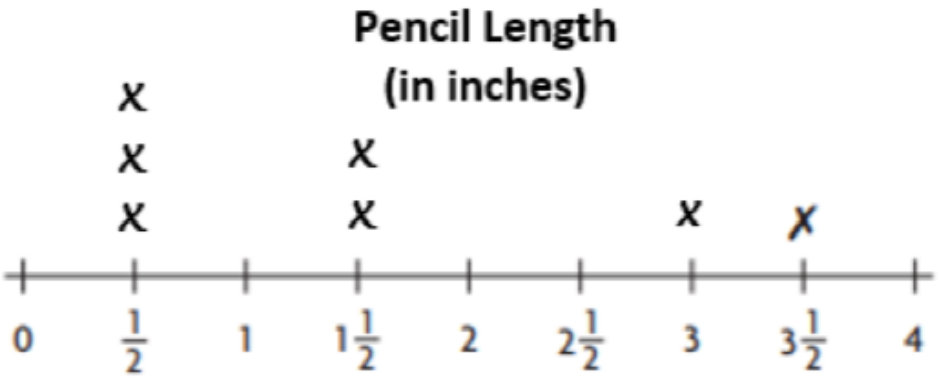


A. Two- fifths of the rectangle is shaded because the area is 5 square units and one square unit is shaded.
B. Two-fifths of the rectangle is shaded because the area is 5 square units and two square units are shaded.
C. Three-fifths of the rectangle is shaded because the area is 5 square units and 3 square units are shaded.
D. One -fifth of the rectangle is shaded because the area is 5 square units and one square unit is shaded.

47. Melissa purchased 3 books to read. One book had 4/8 pages of pictures, one had 3/6 pages with pictures and 7/8 of the third book had pictures. Select all of the fraction comparisons that are ***not*** correct.

A. $\frac{7}{8} < \frac{3}{6}$
B. $\frac{3}{6} < \frac{4}{8}$
C. $\frac{3}{6} < \frac{7}{8}$
D. $\frac{4}{8} > \frac{7}{8}$
E. $\frac{3}{6} = \frac{4}{8}$

48. Use the line plot to answer the following question.



a. How many pencils measure less than 2 inches? _____

b. What is length of the longest pencil? _____

49. Find the product of 30 x 6.

50. Candice writes a number pattern. The numbers are shown below. What is the rule to find the next number in her pattern?

128, 131, 134, 137

A. Add 3
B. Multiply by 3
C. Add 4
D. Multiply by 4

Addition and Subtraction with and without Regrouping

Subtract.

1. 76 − 12

2. 897 − 543

3. 657 − 542

4. 789 − 434

5. 843 − 754

6. 387 − 298

7. 763 − 368

8. 780 − 654

Add to find the sums.

9. 2763 + 3443

10. 1256 + 129

11. 167 + 1264

12. 483 + 209

Multiplication and Division Fluency Practice

Multiply to find the product.

5 × 8	3 × 10	6 × 8	7 × 2	9 × 5	10 × 2	6 × 7
6 × 4	4 × 7	12 × 4	10 × 1	6 × 2	8 × 9	9 × 9

Divide to find the quotient.

54 ÷ 9 = _____	14 ÷ 7 = _____	25 ÷ 5 = _____
60 ÷ 10 = _____	24 ÷ 6 = _____	36 ÷ 12 = _____
28 ÷ 7 = _____	12 ÷ 4 = _____	96 ÷ 8 = _____
42 ÷ 6 = _____	45 ÷ 5 = _____	35 ÷ 7 = _____
72 ÷ 6 = _____	12 ÷ 12 = _____	18 ÷ 6 = _____

Multiplication with Regrouping

Multiplication with regrouping is the easiest way to multiply by large numbers.
Follow the steps below to learn how.

-First, multiply the numbers in the ones place.

-Write your result in the ones place and carry any number in the tens place forward.

-Next, multiply the number in the tens place by the bottom number in the ones place.

-Add the extra number you carried over to your result and write this number in the tens place.

Example:

Multiply the ones place.

$$\begin{array}{r} 17 \\ \times\ 3 \\ \hline 1 \end{array}$$

$7 \times 3 = 21$

Carry the 2 to the tens place.

$$\begin{array}{r} {}^{2}17 \\ \times\ 3 \\ \hline 1 \end{array}$$

Multiply the tens place by the bottom ones place.

$$\begin{array}{r} {}^{2}17 \\ \times\ 3 \\ \hline 1 \end{array}$$

$1 \times 3 = 3$

Add the extra 2 and write your result.

$$\begin{array}{r} {}^{2}17 \\ \times\ 3 \\ \hline 51 \end{array}$$

$3 + 2 = 5$

For each problem below, follow the steps used in the example to find your solution.
Be sure to show all of your work.

1) $\begin{array}{r} 32 \\ \times\ 3 \\ \hline \end{array}$

2) $\begin{array}{r} 25 \\ \times\ 2 \\ \hline \end{array}$

3) $\begin{array}{r} 13 \\ \times\ 4 \\ \hline \end{array}$

4) $\begin{array}{r} 16 \\ \times\ 4 \\ \hline \end{array}$

5) $\begin{array}{r} 25 \\ \times\ 3 \\ \hline \end{array}$

6) $\begin{array}{r} 23 \\ \times\ 2 \\ \hline \end{array}$