

Dear Incoming 5th Grade Student,

This math packet is primarily meant to refresh your mind of the material that was covered in 4th Grade math. It is also intended to give you a hint of things to come. You should have the skills to complete these new problems, but if a problem seems tough, you should still try those problems but not get frustrated or worried about getting them wrong. You can always use your journals or parent assistance if needed.

A note about Math Facts: Basic math skills are a necessary component for succeeding in higher levels of math. Therefore, upon entering 5th grade, students need to be expertly skilled in their basic multiplication, division, addition, and subtraction facts. Explicitly stated, students should be able to solve a series of 50, simple, math problems within 1 minute. For example: $5 \times 6 = 30$; $9 \times 8 = 72$; $12 \times 11 = 121$.

(Students will be responsible for multiplication facts from 0×0 - 12×12 .)

Please remember to **SHOW YOUR WORK**. If you need to complete work on alternate paper, PLEASE be sure to number your problems. I will collect your packets and work on the 1st day.

See you in the Fall!

Mrs. S.

Entering 5th Grade Math Packet

1. Write the given number in expanded form: 12,695
2. Round the given number to the place value of the underlined digit: 123,875
3. If the following number were increased by six hundred, what would the new number be? 7,196
4. Compare the following numbers using $<$, $>$, $=$, $2,328$ ___ $2,238$

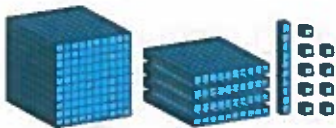
5. a. Find the sum:

$$45654 + 32879$$

b. Find the difference:

$$45654 - 32879$$

6. What is the value of the given model: _____



7. a. Find the sum:

$$3078 + 2398$$

b. Find the difference:

$$3078 - 2398$$

8. Write the number "six hundred three" in standard form: _

9. Three friends got together to sell beverages. Akash sold 13 cups of lemonade.
Harleen sold 18 cups of iced tea.
Shamika sold 24 cups of apple juice.
How many drinks did they sell together?

10. Write the following statement as a multiplication equation:
35 is 5 times as many as 7.

11. A school district had four elementary schools to start the year. North Elementary School had 1,175 students; East Elementary School had 1,580 students; West Elementary School had 1,435 students; and South Elementary School had 1,810 students.

However, they thought their elementary schools were too crowded, so they built another elementary school halfway through the year. They divided the students so that each of the 5 schools had the same amount of students. How many students did each school have after the new school was built?

12. Anthony is buying a black shirt and a blue jacket. The cost of the blue jacket is 3 times as much as the black shirt. If the black shirt costs \$12, how much does the blue jacket cost?

13. Find the product of 3,541 and 26.

14. Divide. Check your answer.

$$7 \overline{) 173}$$

15. Which list contains prime numbers?

a. 19, 28, 29

b. 11, 19, 30

c. 11, 19, 29

d. 11, 15, 29

16. What is the product of 34×447 ?

17. There are 72 candles in 8 drawers. Each drawer has the same number of candles. Which number sentence shows how many candles are in each drawer?

|-----72 candles-----|

?	?	?	?	?	?	?	?
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Candles per drawer

18. What is the best estimate of the product of 9×78 ?
- a. About 600
 - b. About 630
 - c. About 720
 - d. About 800

19. Which number completes the table?

n	153	126	99	57
$n \div 9$	17	?	11	3

20. There were 26 computers in the computer lab. If c represents the number of computers that were removed from the lab, which expression represents the number of computers that remain in the computer lab?

- a. $26 - c$ b. $26 + c$ c. $26 \times c$ d. $26 \div c$

21. Danny had \$216. After paying for a new CD player, he had $\$216 - x$, where x equals the amount he paid for the CD player. If x is \$38, how much money did Danny have after he paid for the CD player?

22. A newborn manatee weighs 65 pounds. The mother manatee weighs 17 times as much. How much does the mother manatee weigh?

24. $2,608 \div 4 =$

25. A DVD cabinet has 7 shelves. Each shelf can hold about 38 DVDs. What is a reasonable estimate of the number of DVDs the cabinet can hold?

A. 210 because 7×38 is about $7 \times 30 = 210$

B. 280 because 7×38 is about $7 \times 40 = 280$

C. 320 because 7×38 is about $8 \times 40 = 320$

D. 350 because 7×38 is about $7 \times 50 = 350$

26. Complete the table.
Then express the pattern in a number sentence.

INPUT	OUTPUT
1	3
2	6
3	
	12
5	

27. Find the common denominator of these numbers:
 $\frac{2}{3}$ and $\frac{3}{5}$

28. Solve: $\frac{2}{5} + \frac{2}{5} =$

29. In a relay race, each runner runs $\frac{1}{2}$ of a lap. If there are 4 team members running, then how long is the race? Show your work.

30. You are following the recipe for Chocolate---Oatmeal Drop Cookies.

2 $\frac{3}{4}$ cups flour
2 $\frac{1}{2}$ teaspoons baking powder
 $\frac{1}{2}$ teaspoon salt
 $\frac{1}{2}$ cup
margarine 1
 $\frac{3}{4}$ cups sugar
1 $\frac{1}{2}$ teaspoons
vanilla 2 eggs
1 $\frac{1}{4}$ cups milk
2 cups quick
oatmeal 1 ounce
cocoa

In the kitchen you have the following amount of each ingredient:

Flour: 8 cups
Baking Powder: 20 teaspoons
Salt: 12 teaspoons
Margarine: 5 cups
Sugar: 8 cups

Vanilla: 10 teaspoons
Eggs: 1 dozen
Milk: 4 cups
Oatmeal: 8 cups
Cocoa: 8 ounces

Determine how much of each ingredient you would have left over after you complete the recipe for the cookies.

Flour: _____
Baking Powder: _____
Salt: _____
Margarine: _____
Sugar: _____
Vanilla: _____
Eggs: _____
Milk: _____
Oatmeal: _____
Cocoa: _____

- 31.** Ron says 0.18 is greater than 0.5. Nick says Ron is wrong. Who is right? Justify your answer with written explanation.
- 32.** How many inches are in 6 feet?
- 33.** How many millimeters are in 3 centimeters?
- 34.** A rectangular garden has an area of 80 square feet. It is 5 feet wide.
- a. How long is the garden?
- b. What is the perimeter of the garden?

35. Gina decides to figure out how long her class spends actually studying and learning in one day. She arrives at school at 8:30 a.m. The class goes to recess from 9:30 a.m. to 9:45 a.m., and then works in literature circles and writing until 11:30 a.m., when the class goes to lunch. Students are at lunch for 40 minutes. After they return to class, they work on math until their ten-minute afternoon break at 1:30 p.m. After break, they work on science and social studies until school dismisses at 3:10 p.m. How much time are the students in school? How much time are they learning and studying? Give your answer in hours and minutes.

36. Mr. North spent \$144.00 to build a fence around the perimeter of his vegetable garden. He paid \$6.00 per yard for fencing.

- Draw two possible plans for Mr. North's vegetable garden. Include the measurements for area and perimeter.
- Explain the steps you took to solve this problem.
- Which plan do you think is the best design? Why?

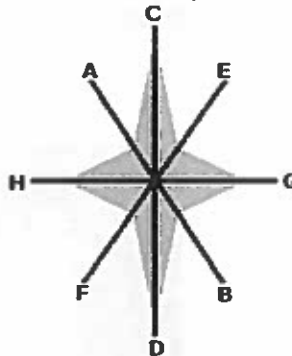
37. Chris and Kevin have an insect collection. They have measured the lengths of all their insects. Their data show that 4 insects are $\frac{1}{8}$ inch long, 6 are $\frac{1}{4}$ inch long, 8 are $\frac{1}{2}$ inch long, 2 are $\frac{1}{6}$ inch long, 1 is $\frac{1}{12}$ inch long, and 5 are $\frac{1}{3}$ inch long.

a. Create a line plot that shows the data.

b. How much longer is the longest insect from the shortest insect?

38. A right angle is an angle that measures how many degrees?

39. Which of the lines is a line of symmetry for the star below?



a. CD only
only

b. AB and EF

c. CD and GH

d. AB

40. What is the name of a polygon with 5 vertices?

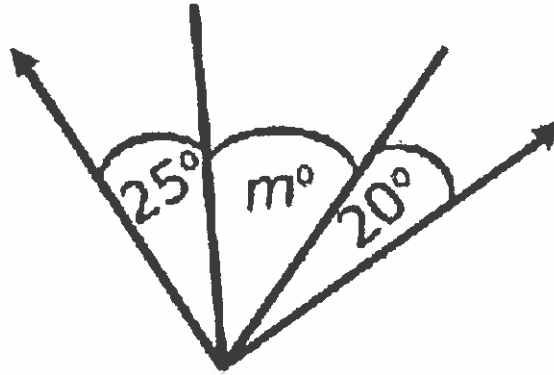
41. Draw an angle that is

I. Obtuse

II. Right

III. Acute

42. Ella and Molly's teacher told them that the two outside rays in this drawing are perpendicular. She asked them to find the missing angle measure. What is it?

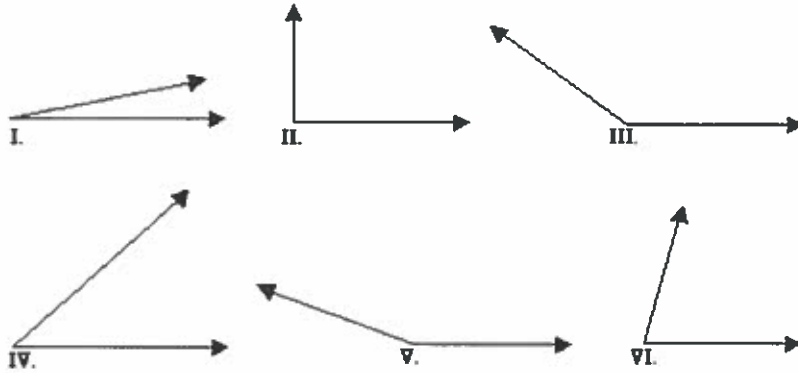


43. How many pairs of perpendicular line segments make up the figure below?
- A. 6 B. 3 C. 5 D. 12

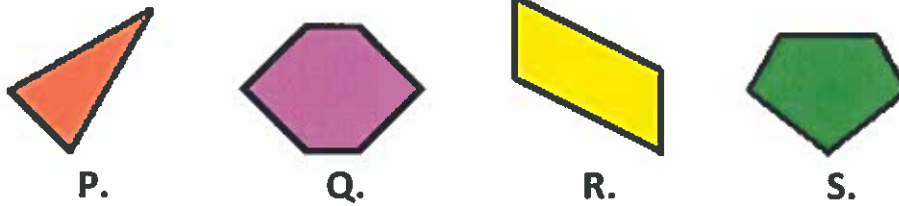


44. Which of the following is a 4-sided shape whose opposite sides are parallel?
- A. cube B. triangle C. parallelogram D. circle

45. Which angle below appears to be a right angle?



46. Which figure has exactly two lines of symmetry?



47. $2,435 \div 15 =$

48. $263 \div 28 =$

49. $386 \times 25 =$

50. $7,320 \times 18 =$