

Title I Inventories

These inventories were compiled in Title I several years ago as a measuring tool to show growth. These inventories were designed with the intention that each grade level test be given at the beginning of the year as a pretest for concepts to be acquired during the year. **When given as a pretest it is essential that students understand that they are not expected to know most of the material. Tell the students to merely peruse the inventory to see if there are any questions they feel they would like to attempt.** Explain to the students that these same tests will be given again at the end of the year to show how much they have learned. Every box is aligned to one or more of the ASD Performance Standards for the particular grade level.

In the past few years non-Title schools have requested these inventories. As well as a measure of growth, these inventories have been used to guide instruction by identifying gaps in a student's mathematical understanding. To use it for this purpose, teachers have been giving the inventories from **previous grade levels**.

In this packet you will find: the inventories, the answer sheets for the inventories, the alignments to the ASD Performance Standards, and the grade level ASD Performance Standards. Also included is a grid on which a teacher may record the correct and incorrect answers for each question.

Math Inventory Assessment Administration

Grade 3

- Inventories may take about 1 hour to administer.
- You may choose to administer them one page at time.
- You may read the problem if it does not include “reading a number correctly”.
- You should not use any other questioning strategies.
- Please do not define any terms.
- Manipulatives should be provided.
- The inventories may be copied on overheads and read item by item to the whole class. This is particularly important in the primary grades but may extend to the intermediate grades, as needed.
- Teachers should score the inventories and correlate them to the standards so that they can focus their future instruction more precisely. A tally sheet is provided to help you highlight patterns across the class.
- *To guide instruction, use the previous grade’s inventory in the fall.* Some teachers administer grade level inventories in January, as well as in September and April; this can aid in keeping instruction focused upon the children’s needs.
- *To show growth, use the current grade level inventory in the fall and the spring.*

Grade 3 Math Inventory

Name _____
 Date _____
 Teacher _____

1. Write the number that is 100 less.

198 _____ 8,904 _____ 1,020 _____

2. Write the number that is 1,000 more.

874 _____ 1,981 _____ 9,912 _____

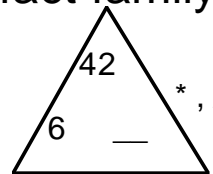
3. Maria counts aloud by 4's. If she counts correctly, circle the number she will say aloud.

- a. 14 b. 21 c. 28
 d. 39

4. In the number 586,324, the 3 means _____.

5. Write four thousand, two hundred, thirty-six:
 _____.

6. Complete the fact triangle. Write the fact family.



_____ * _____ = _____ _____ / _____ = _____

_____ * _____ = _____ _____ / _____ = _____

7. Fact Extensions:
 $4 * 2 =$ _____

This helps me know

$4 * 20 =$ _____

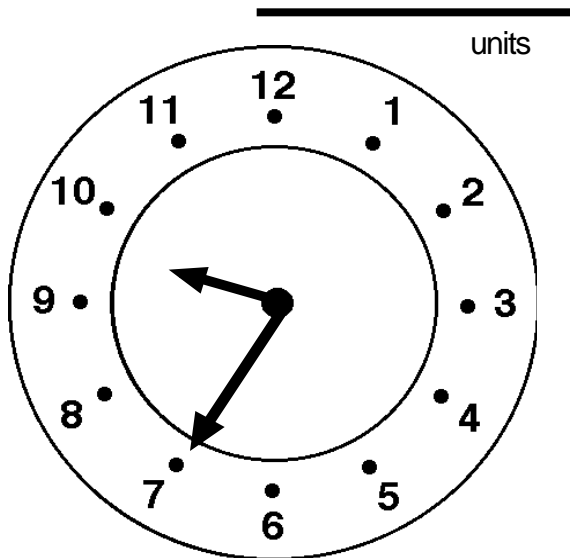
and $40 * 20 =$ _____

8. What's the rule? Fill in the blanks. Rule:

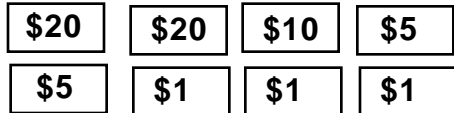
In	Out
7	21
	6
4	12
6	

Grade 3 Math Inventory

15. This clock shows _____ AM.
How long until 10:00 AM?



16. How much money?



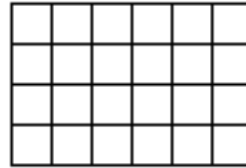
(Q) (D) (D) (D) (N) (N) (P) (P) (P)

17. T-shirts were on sale at Wal-Mart for \$8.95. Sarah bought one. She paid with a \$10 bill. How much change did she get back?

Answer: _____ unit

18. The area of the figure below is _____ square units.

The perimeter is _____ units.



19. About how much does a gallon of milk weigh?

- a. 6 ounces
- b. 1 pound
- c. 10 pounds

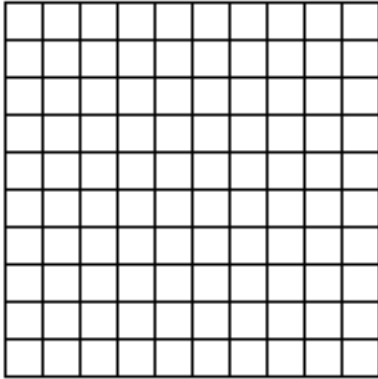
20. A kitchen chair costs \$77. Tammy buys four chairs. About how much will she spend? (Answer to the nearest hundred dollars.)

Answer: \$ _____

21. You want to share a candy bar with two friends. Divide the bar into thirds. Color the part you get to eat.



22. If the grid is ONE, color part of the grid to show 0.64:



23. Write in order from smallest to largest:

a. 239,563 230,612 56,718

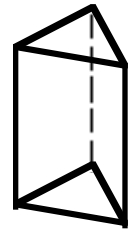
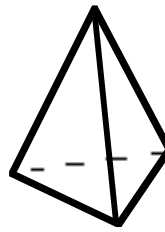
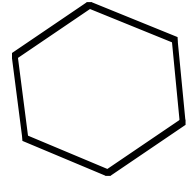
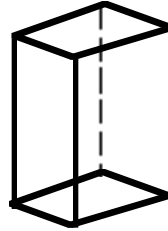
b. $\frac{4}{5}$ 1 $\frac{3}{5}$

24. Solve

a. $\frac{3}{5} + \frac{1}{5} = \underline{\hspace{2cm}}$

b. $\frac{5}{7} - \frac{3}{7} = \underline{\hspace{2cm}}$

25. Label each as a prism, pyramid or polygon:



26. Solve the number story:

One lizard had 23 eggs. Another lizard had 19 eggs. How many more eggs did the first lizard have?

answer _____

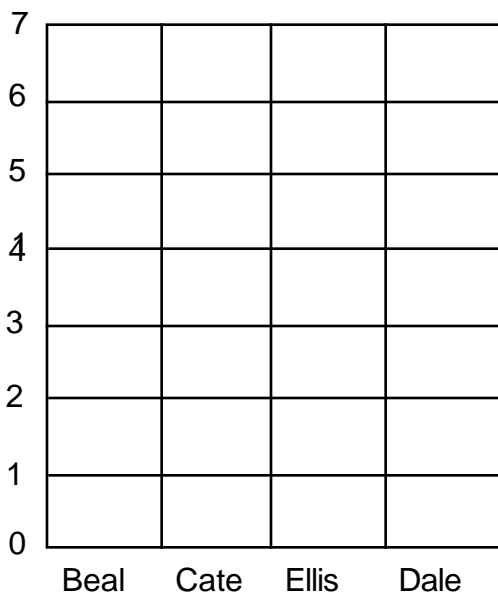
Use words to tell how you got your answer:

Grade 3 Math Inventory

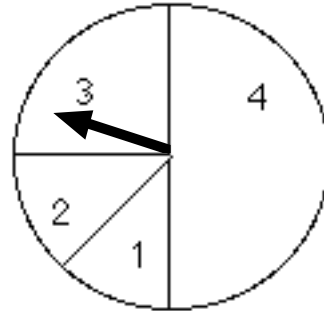
27. Complete the bar graph.

Family Sizes

Family Name	Number of Children
Beal	2
Cate	0
Ellis	6
Dale	1



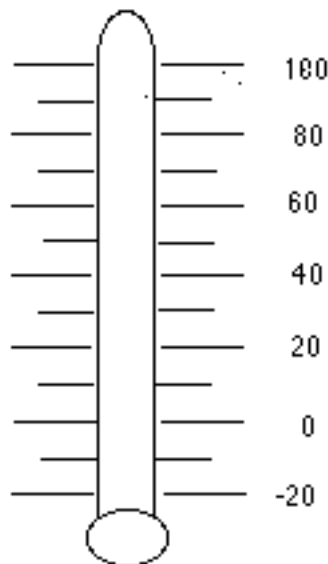
29. This is a spinner.



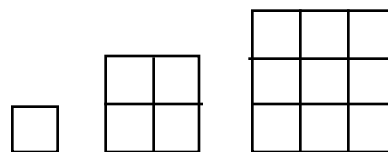
Use the numbers 1, 2, 3 and 4 to make 2 predictions about the spinner:

- The spinner is more likely to land on _____ than _____.
- The spinner is twice as likely to land on _____ as _____.

28. Color the thermometer to show 75 °F.



30. Draw the 4th figure in the pattern.



How many small squares are in your drawing? _____

Third Grade Math Inventory

Answer Key

- 98; 8804; 920
(any 2 correct = 1/2 point)
- 1874; 2981; 10,912
(any 2 correct = 1/2 point)
- C) 28
- three hundreds, 300 or hundreds
- 4236
- Fact Family
 $6 * 7 = 42$
- 8, 80, 800
- Rule: *3 Blanks: 2, 18
(1/2 pt. rule and blanks)
- a 908 b 248
(1/2 pt. each)
- XXXXX
XXXXX (if rotated 90
XXXXX degrees, 1/2 pt.)
- a 6; b 5
- $225 - (30 + 25) = 170$ pages
- 3
- 1-heart 3-triangle
4-square 6-hexagon
(1/2 pt. for each 2 correct)
- 9:35, 25 minutes (1/2 pt each)
- \$63.68
- \$1.05
- area-24 square units
perimeter-20 (1/2 pt. each)
- about 10 pounds
- \$300
- Bar is divided into thirds;
one-third (1/3) is shaded
- six tenths and 4 hundredths
shaded
- a. 56,718; 230,612; 239,563
b. 3/5, 4/5, 1
(1/2 pt. for each)
- a 4/5 b 2/7 (1/2 pt. each)
- shapes (left to right
starting with the top):
prism, polygon, pyramid,
prism
- $23 - 19 = 4$ eggs;
Logical strategy (1/2 pt each)
- bar graph
- shows 75 degrees (between 70 and 80)
- a. 4 than 3, 2 or 1; 3 than 2
or 1
b. 4 than 3 or 3 than 2 or 1
- figure shows 4 x 4 box; 16

