

SUNSHINE MATH - 5

Saturn, V

Name: _____

(This shows my own thinking.)

- ★★ 1. Big Al has a set of non-metric wrenches that have these numbers on the end:

$$\frac{7}{16} \quad \frac{1}{4} \quad \frac{9}{16} \quad \frac{3}{8} \quad \frac{5}{16} \quad \frac{1}{2}$$



Which of his wrenches fits the largest nut? Which fits the smallest nut?

Answer:s _____ fits the largest

_____ fits the smallest

- ★★★ 2. Jennifer bought a blender for her mother. The blender was on sale for $\frac{1}{3}$ off the marked price. The regular price of the blender was \$18.00. How much will she pay for the blender, including sales tax of 6% ?

Answer: _____



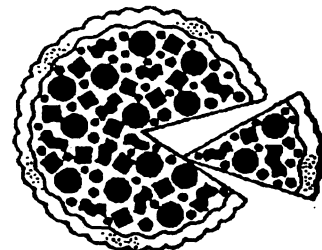
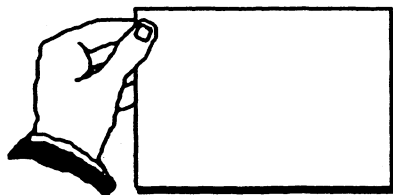
- ★ 3. Melissa and Sarah arranged the music hall for a concert. They made 42 rows with 35 chairs in each row, and 12 rows with 25 chairs per row. How many chairs did they use in all?

Answer: _____ chairs

- ★★ 4. The “square corners” on a sheet of writing paper are 90 degree angles. You can use these corners to estimate the measure of other angles.

About what is the angle of the piece of pizza being removed in the picture?

Answer: ____ degrees



- ★★ 5. In the month of April, 9.45 inches of rain fell in Tallahassee. During the month of May, 9.6 inches of rainfall fell. Which month had the most rainfall, and what was the total for the two months?

Answer: _____ had the most; the total was _____ inches

- ★ 6. Complete the addition. Convert your answer to largest units. (i.e., change inches into feet and feet into yards, if possible)

$$\begin{array}{r} 2 \text{ yd. } 2 \text{ ft. } 3 \text{ in.} \\ + 1 \text{ yd. } 2 \text{ ft. } 11 \text{ in.} \\ \hline \end{array}$$

- ★★★ 7. Eli's Dad made him a birthday cake, but forgot to buy candles. He could only find a few. But Eli was smart in math, so his Dad said "The ratio of candles to years is 3 to 5." That gave him the right number.

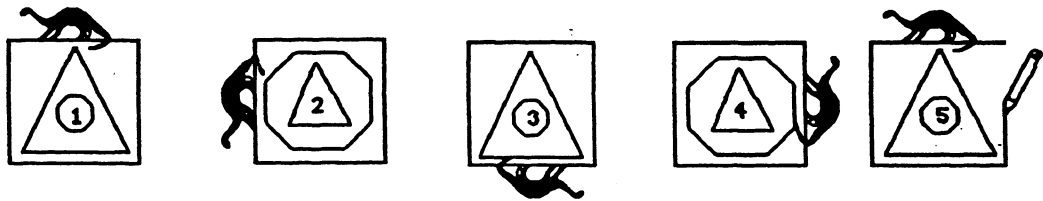


How old was Eli? _____

- ★★★ 8. Kenya, Matt, Tia, and Justin live on the same street. Their houses are gray, green, blue, and white, but not necessarily in that order. Justin lives next door to the grey house. Matt and Justin live across the street from the green house. Tia's house is blue. Circle the one who lives in the white house.

a. Kenya b. Matt c. Tia d. Justin

- ★★★ 9. Answer the questions after studying this pattern. Notice when the pattern starts repeating.



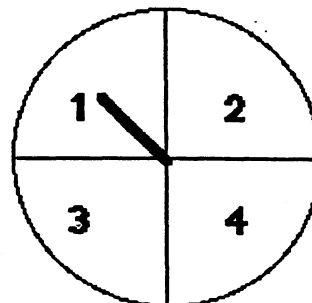
- a. Circle the figure above that would be the same as figure 15 in the pattern.
- b. List the numbers of 5 figures not shown that would be just like number 1: _____
- c. What is the number of the figure above that is just like the 100th figure in line? _____

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Saturn, VI

Name: _____
(This shows my own thinking.)

- ★★ 1. The Adams family uses a spinner each night to see who does the dishes. Carla is assigned number 4.
- a. What is Carla's chance of having to do the dishes on any given night? _____
- b. What is Carla's chance that she won't have to do the dishes on any given night? _____



- ★★★★ 2. Bonita has 6 coins. All of them are pennies or dimes. What are the possible amounts of money she might have?

Answer: She might have _____¢, _____¢, _____¢, _____¢, _____¢, _____¢, or _____¢

- ★★ 3. Compute this answer. $8 \times (7.5 + 2\frac{1}{2})$

Answer: _____

- ★★ 4. Solve this problem if you have enough information. If there is not enough information tell what you need to know in the space below.

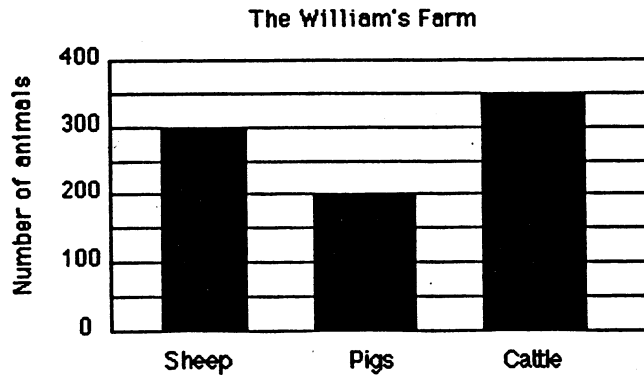
Kimberly orders a sweatshirt. The shirt costs \$25.99 plus the cost for mailing. Kimberly paid with a \$100 bill. How much change did she get back?

Answer: _____

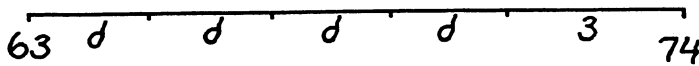
- ★ 5. Use a ruler to draw a segment 52mm long, in the space below.

★★★ 6. Use the following graph to answer these questions.

- What is the total number of animals on the Williams' farm? _____
- What is the difference in the number of cattle and the number of pigs? _____
- How many more pigs do they need to equal the total number of cattle and sheep? _____



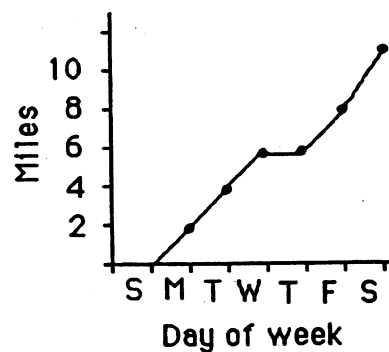
- ★★★ 7. Maria's bike odometer read 63 miles. She rode her bike to school and back 4 days last week. On Saturday she rode to the park and back, a total distance of 3 miles. At the end of those five trips, her odometer showed 74 miles. Find the distance d from her house to school and back. You can find d by using your number sense and the diagram below.



Answer: $d =$ _____ miles

- ★★ 8. Maria made a graph of the distance she travelled last week on her bike between school and home. Which day of the week did she not ride her bike to school?

Answer: _____



- ★★ 9. There are 34 classes in a school and each class could have between 23 and 30 children.
- What is the school's highest possible student population? _____
 - What is the school's lowest possible student population? _____

SUNSHINE MATH - 5
Saturn, VII

Name: _____

(This shows my own thinking.)

- ★★ 1. What is the sum of these mixed numbers? $5\frac{2}{3}$, $3\frac{3}{4}$, $13\frac{1}{6}$, $8\frac{1}{2}$

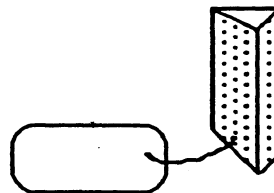
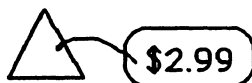
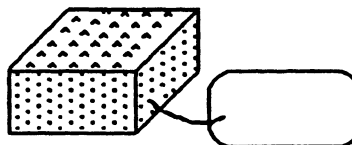
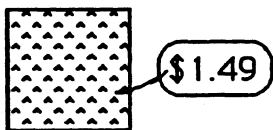
Answer: _____

- ★★★ 2. Artesia found a sale on skates. She got $\frac{1}{5}$ off the regular price of \$34.50. What was the sale price of her skates?

Sale on skates!

Answer: \$ _____

- ★★★ 3. John needed two more shapes to complete his project. How much will each shape cost? Compute the cost of each shape using the key -- write the cost on each tag.



- ★★★★ 4. Put >, <, or = between each pair of numbers.

a. 34.63 _____ $34\frac{1}{2}$

b. $3\frac{2}{5}$ _____ $1\frac{12}{5}$

c. 12.443 _____ 1.2443

d. 0.09 _____ 0.9

- ★★ 5. Mike and Sam are running a 26 mile marathon. They started out at 8:15 a.m.. They both crossed the finish line at 1:26 p.m.. How long did it take them to finish the race?

Answer: _____ hours and _____ minutes



- ★★★ 6. a. How many \$1 bills are in \$1,000,000? _____
 b. How many \$100 bills are in \$1,000,000? _____
 c. How many \$1,000 bills are in \$1,000,000? _____

- ★★★★ 7. Find the numbers that each letter stands for in the problem below.

$$\begin{array}{r} \text{EFGH} \\ \times \quad 4 \\ \hline \text{HGFE} \end{array}$$

E = _____

F = _____

G = _____

H = _____

- ★ 8. Jim was putting carpet in his son's tree house. He needed to find the area of the floor. But he was having trouble with the multiplication. The measurements were 4.2 meters by 6.3 meters. Do the multiplication to help him find the area.

Answer: _____ meters²

- ★★ 9. Rewrite this riddle so it's easily understood.

The middle 3/5 of SHOWS.
 The first 1/3 of DOODLE.
 The first 3/5 of YOURS.
 The first 1/2 of KEEPSAKE.

The middle 1/5 of TRAPS.
 The first 6/6 of TURKEY.
 The middle 1/2 of PINS.
 The first 8/11 of SUSPENSEFUL.

Answer: The riddle is: _____

A good answer to the riddle might be: _____

SUNSHINE MATH - 5
Saturn, VIII

Name: _____
(This shows my own thinking.)

★★★ 1. Write true, sometimes, or false.

- a. Perpendicular lines intersect. _____
- b. Two sides of a triangle are parallel. _____
- c. Two lines that are parallel to the same line are parallel to each other. _____

★★ 2. Solve:

$$9 \div (1 + 2) + 9 \div 3 = ?$$

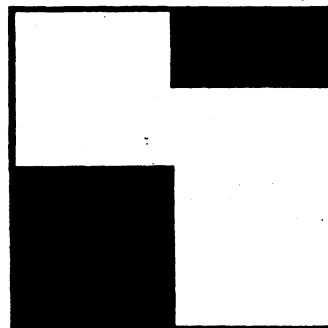
Answer: _____

- ★ 3. Lisa and Sandy were comparing sticks. Lisa's stick was $\frac{2}{3}$ of a yard long. Sandy's stick was $1\frac{10}{12}$ of a foot long. Who's stick was the longest, and by how much?

Answer: _____ was longer, by _____.

- ★★★★ 4. What fraction of the large square is shaded?

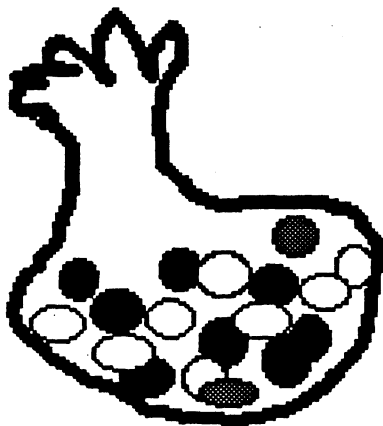
Answer: _____ is shaded



- ★★ 5. Adrienne left home at 8 a.m.. She arrived in Los Angeles at 1:28 p.m.. Her friend Erica left home at 10 a.m.. She arrived in Los Angeles at 2:45 p.m.. Assume they are in the same time zone the whole trip and both trips take place during the same day. Altogether, how many hours did Adrienne and Erica spend traveling?

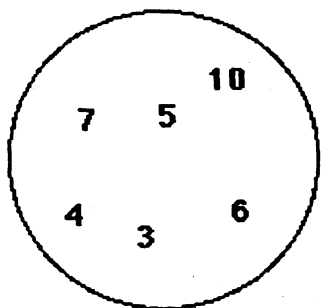
Answer: _____ hours, _____ minutes

- ★★ 6. Mike had eighteen jellybeans in a bag. 12 of them were green, 1 was blue, 1 was black, 1 was white, 1 was pink, and 2 were orange. If he stuck his hand into the bag without looking, what is the probability of his pulling out an orange jellybean? Write your answer as a fraction.



Answer: _____

- ★★★★ 7. Write a number sentence. Use every digit in the circle only once. Insert math symbols (+, -, x, ÷) and end with the number three. Use parentheses if necessary.



Answer: _____ = 3

- ★★ 8. Joe and Christine each bought a six pack of colas. Joe gave $\frac{2}{3}$ of his away to friends, and Christine gave away $\frac{1}{2}$ as many as Joe. How many more colas did Christine have, than Joe?

Answer: She had ____ more.

- ★ 9. Lo Ann's softball team had 16 players. One day it started raining at practice, and all but 5 players squeezed into the refreshment stand, out of the rain. How many were left to get wet?

Answer: ____ were left outside and got wet.