Name: Answers

1. Jacari was playing Name That Number. He had the cards shown below. Write two different expressions that show how Jacarı could play his cards. Use grouping symbols in at least one of the expressions.


Target
Number

$$
\frac{11 \times 2}{(9 \times 2)+4}
$$

* answers may vary

2. Find the area of the rectangle. Write a number sentence to show your thinking.



$$
\begin{aligned}
& A=l \times w \\
& A=17 \frac{1}{2} v^{2}
\end{aligned}
$$

$$
A=7 \times 2 \frac{1}{2} \quad A=(7 \times 2)+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}
$$

$\qquad$
$\qquad$
$\qquad$
3. Solve.
a. $7 *(5+4)=63$
b. $(7 * 5)+4=39$
c. $\underline{q}=(35 \div 5)+2$
d. $5=35-(5+2)$
4. Select the items that have volume.
(A) bathtub
B) the tip of a marker
(C) a can of tomato sauce
D) a drawing of a triangle
(E) the inside of a planet
F) the surface of a mirror
5.
a. Hiroto filled a box and said its volume was 58 balls Aisha filled the same box and said its volume was 67 cubes Explain how Hiroto and Aisha cold get different volumes for the same box.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
b. Are balls or cubes better for measuring the volume of a rectangular prism? Why? Cubes are better because they will fit tightly together while balls will leave spaces.
$\qquad$
$\qquad$
$\qquad$
6.

How many cubes would it take to fill this prism?
162 cubes
What is the volume of this prism?
162 cubic units

$$
\begin{aligned}
& V=\ell \times w \times h \\
& v=9 \times 6 \times 3
\end{aligned}
$$



7

How many cubes would it take to fill this prism?
150 cubes
What is the volume of this prism?
150 cubic units

$$
\begin{array}{ll}
3 & V=B \times h \\
25 & V=25 \times 6 \\
\times \frac{6}{150} &
\end{array}
$$

8. Compare the strategies you used to find the volume in the two previous problems. How were they the same? How were they different?


1 used the formula $V=B \times h$ for one and 1 used the formula $v=l \times w \times h$ for the other. For both, I had to find the length, width, and
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
9.

4 squares with side length $\frac{1}{2}$ inch fit in 1 square inch.


25 squares with side length $\frac{1}{5}$ inch fit in 1 square inch.


How many squares with side length $\frac{1}{7}$ inch will fit into 1 square inch? You may want to draw a picture to help you.


49
10.
a. What pattern do you notice about the relationship between the side length of the smaller squares and the number of squares that will fit in 1 square inch?

b. Use the pattern to explain how many squares with side length $1 / 9$ inch would fit into 1 square inch.

The denominator of the fraction is the same as the number of squares along each side. Then multiply the exc to find area.

81 squares would fit

Find the volume of the rectangular prism. Remember to include a unit.
Write a number sentence to show how you found the volume.
Use the following formulas to help you $V=I \times W \times h$ and $V=B \times h$.


$$
V=9 \times 5 \times 7 \quad \begin{aligned}
& 3 \\
& \times 45 \\
& \hline 315
\end{aligned}
$$

$315 f^{3}$
11.

Find the volume of the rectangular prism Remember to include a unit. Write a number sentence to show how you found the volume.
Use the following formulas to help you: $V=I \times w \times h$ and $V=B \times D$


$$
\begin{aligned}
& V=9 \times 8 \\
& V=72 \mathrm{ft}^{3}
\end{aligned}
$$

12. 

Kara was raising money-to donate. She earned $\$ 36$ from her lemonade stand and $\$ 12$ for watching her neighbor's pets. She donated half the money to the food bank.

Write an expression that models the amount of money Kara donated.
Exprosono: $(36+12) \div 2$

Use paper and pencil to solve the problem.

$$
\begin{aligned}
& (36+12) \div 2 \\
& 48 \div 2=24
\end{aligned}
$$

13. 

a. Find the volume of this figure.


First we have to split the Total $V=203 \mathrm{~cm}^{3}$ figure into 2 rectangles. Then, find the volume of earn rectangle using $v=\ell \times w \times h$.
Then, we will add the two volumes together to
find total volume.
14. Use paper and pencil to solve the problem.

Write the volume of each figure and the number sentence you used to find it. Then identify and circle the card that would win the round of Prism PileUp. Remember $V=l \times w \times h$.
a.

$v=252$ cubic centimeters

Number Sentence:

$$
V=9 \times 1 \times 4
$$

b.


Number Sentence:

$$
=(3 \times 3 \times 5)+(4 \times 6 \times 8)
$$

