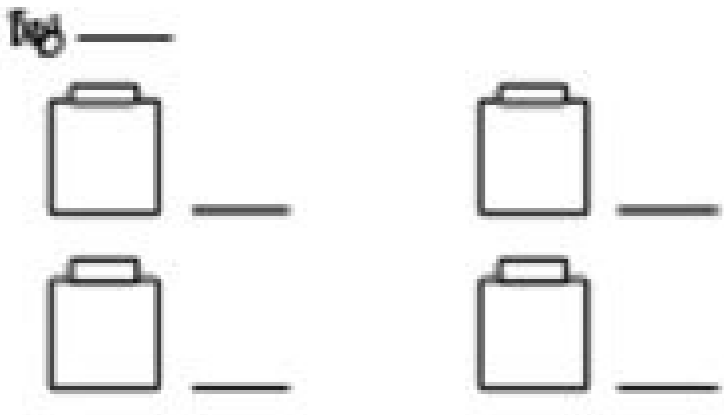


I'm not robot!

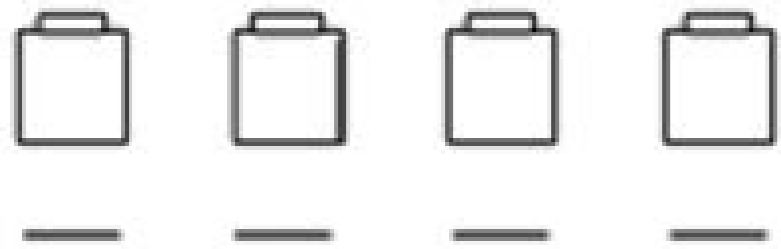
Name _____

Count Them Up!

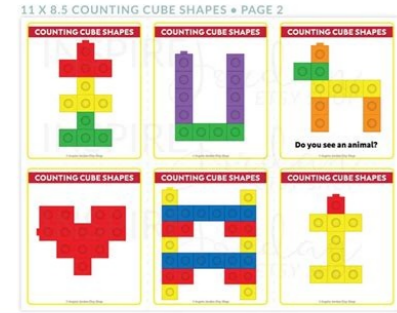
Color the UNIX cubes to match the colors #302F J66. Count the white hole(s) of each color.



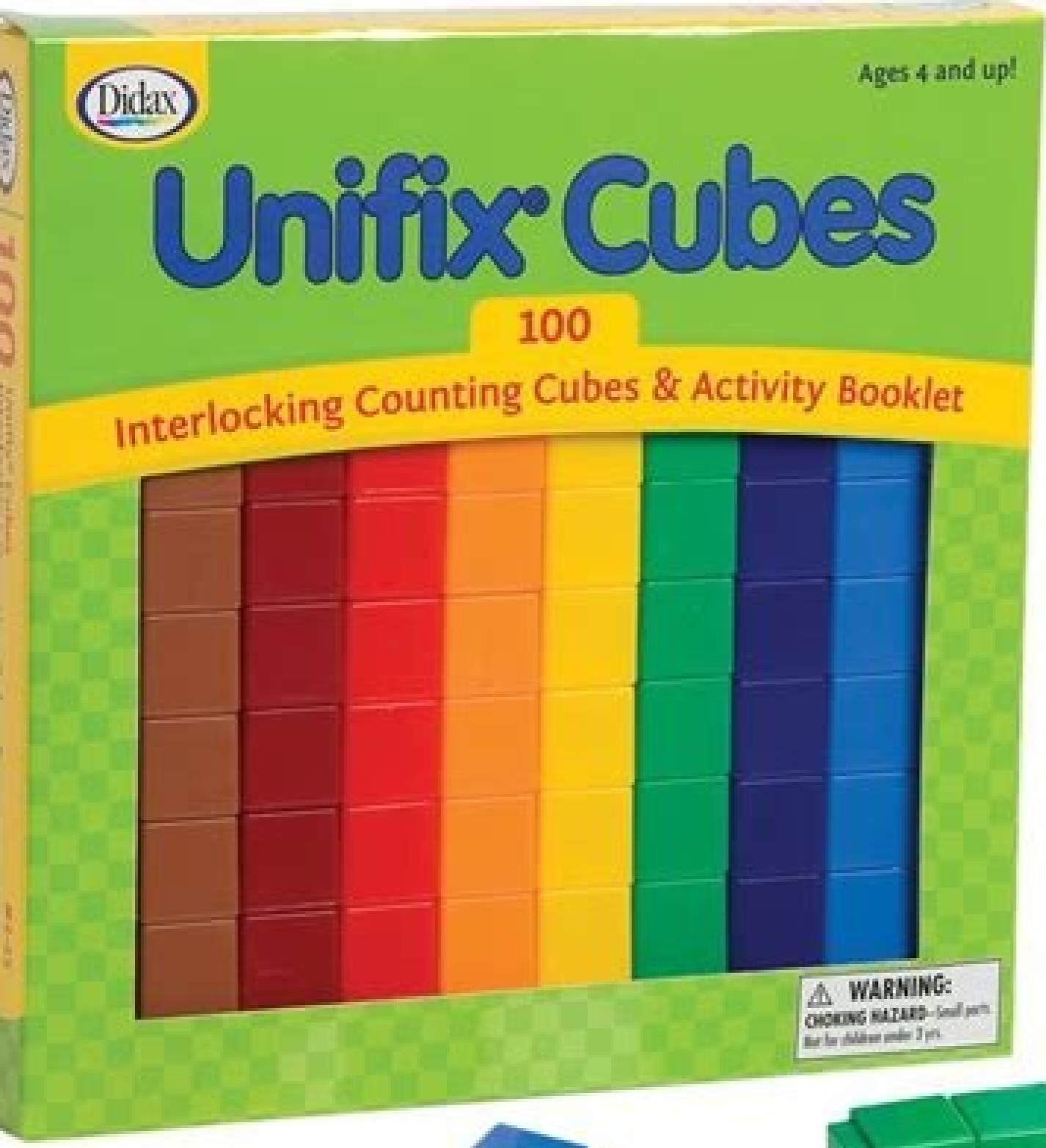
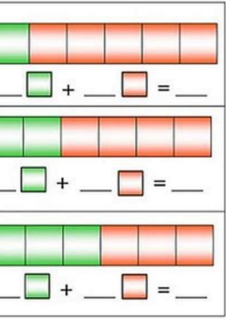
Order the cubes from GREATEST to LEAST.



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PURCHASE, PRINT, TODAY!



Name _____

Unifix-Cube Patterns

1. Use cubes to make numbers.

2. Color the squares below to show your pattern.

This post contains affiliate links. As an Amazon Associate I earn from qualifying purchases. Today I'm sharing a variety of activities to help you get the most out of your unifix cubes. (This post contains affiliate links.) We have a small set of unifix cubes that we use for all sorts of math learning. Today I'm sharing some ways that kids ages 2-8 can learn with these colorful manipulatives!

1- Sort by color There are ten different colors in our set of unifix cubes, so my dip tray didn't have quite enough sections. But no matter... sorting 100 cubes (minus the 20 or so we've misplaced, ahem) is a big job - so my Two sorted about 7 colors before he'd had enough. This looked so fun my Four wanted a turn afterward. 2 - Roll a die and build a tower My Two (going on three) is now counting past ten quite well and starting to count objects up to 5 without difficulty. The next step? Learning to recognize numbers. So I took one of our cool blank dice and labeled the sides with some small numbers to start (1, 2, 3, 1, 2, 3). When he rolled it I helped him identify the number. Then we added that number of cubes to his tower. 3 - Comparing sets with towers This idea from Prekinders was perfect for my Two. I printed some of these more/less/same cards. Then I placed down two cards at a time - of two different colors. My Two placed cubes on the squares as we counted together. Then we built the towers to see which was taller. Older kids would be able to tell you which amount was more without building the towers; building the towers and comparing them would be a way to check their answer. 4 - Graph unifix cubes We have found a lot of fun ways to make graphs. This is another one to add to our list. I simply gave my son the printable, crayons, and a set of cubes in eight colors. He used some crayons to color a square at the bottom of each column to represent the colors. Then he graphed them and compared the towers. Get this printable at the end of the post. 5- Continue the pattern These free unifix cube pattern cards from Heidisongs are terrific! I love the set includes a huge variety of patterns. My Four started simple with ABAB and moved into the tougher patterns. We began the pattern by placing cubes on the colored squares. Then we named the pattern (yellow, blue, blue, yellow, blue, blue) and he continued it. A year ago patterns made no sense to him at all, and now they're a breeze. Yay! Your child might be able to label the pattern (ABCD or AABB, for example), but my Four isn't ready for that. For an even more advanced pattern activity using unifix cubes, visit Stay at Home Educator. 6 - Model addition facts I printed some addition flash cards and cut them apart. When I set out a card, my Four modeled the addition fact using two different colors of unifix cubes. Then he was allowed to write the answer on a stack of sticky notes using a permanent marker (the marker was the big attraction). We definitely aren't working on math facts yet (not even close!), but this was a great introduction to the concept of addition. Plus a nice opportunity to practice writing those numbers. (If you're interested in some simple number writing worksheets for extra practice, check out this post.) 7 - Find ways to make 10 (or another number) I was truly surprised (okay, shocked) at how well my Four did with this. It tells me I need to up my game with him and do some more thoughtful math activities. I printed this simple "ways to make 6" printable from The Linton Academy. Then I showed him how we could use 3 green cubes and 3 yellow cubes to make a sum of 6. He wrote down the two numbers in the blanks to show the fact "3+3." Then we kept rearranging the cubes to make new facts. He actually did most of it on his own. (When did this little boy grow up?!) I love that you can get free printables for ways to make 7, 8, 9, and 10 in the same free pack. 8 - Race to 20 I created this simple printable to work on a variety of skills with my Four. We took turns rolling a die and building onto our towers until one of us had a total of 20 cubes. You can get Race to 10, 20, or 30 by visiting this post. 9 - Build towers to 10 My Four was excited to practice writing his numbers using permanent markers on post-it notes (two things he does not usually get to use). After making sure the post-it notes were on a newspaper as he wrote (so as not to mark up our table!) he had fun writing his numbers up to 20. For this activity, we used just numbers 1-10. I made the towers, he counted them, and put them in their proper spots. You could also have your child make the towers. We were inspired by this block activity from Frugal Fun For Boys. 10 - Estimate and measure the length of school supplies After their day at kindergarten and second grade, I gave a copy of this printable to each of my two oldest. They enjoyed making estimates and checking their guesses by making unifix cube towers. Get this printable at the end of the post. 11 - Use a balance We used our balance so my oldest two could get a little more measuring practice. They found objects that weighed the same, less, or more than a certain amount of cubes and recording them on the worksheet. Get this printable at the end of the post. 12 - Introduce multiplication The other evening, after he was supposed to be asleep, my Six came down the stairs very upset because his sister had told him that five times three equals fifteen. He was sure it had to be eleven, and no matter what I said he wasn't convinced. My attempts to teach him the basics of multiplication were lost on him, so I pulled this activity out a few days later. To make it a game, I pulled out two dice and a set of six construction paper squares. The first die he rolled told us how many squares to set out. The second die told us how many cubes to put on each square. I showed him how having sets of a particular number is what multiplication is all about. We counted the cubes and wrote the multiplication facts. Even more ways to learn with unifix cubes Have you seen our ways to learn with dice? Another great manipulative! Students will: Be able to use formulas to measure the volume of a rectangular prism, a cylinder, and a square pyramid Make class sets of the Setting the Stage With Geometry Worksheet: Pack it Up! What Will Fit? printable and the Setting the Stage With Geometry Reference Sheet: Perimeter, Area, Surface Area, and Volume printable: Print a copy of the Answer Key: Setting the Stage With Geometry printable for your use. Hang a copy of the Setting the Stage With Geometry Classroom Poster printable in your classroom or project it using a computer and projector. Optional: Make class sets of the Setting the Stage With Geometry Take-Home Activity: The Perfect Fit printable and the Turn Up the Volume! Bonus Worksheet printable for students to complete as part of the Lesson Extensions. Step 1: Explain to your students that now that they've mastered measuring the surface area of 3-D shapes, they can move on to measuring volume, which is the amount of space inside a 3-D shape. Using unifix cubes or a similar manipulative, construct a rectangular prism with height = 3 units, length = 4 units, and width = 5 units. Note: If you have enough time and an adequate supply of manipulatives, have students construct rectangular prisms, either individually or in groups. Step 2: Ask how many cubes it took to build the prism (60). So the prism's volume is 60 cubic units. Explain how a cubic unit is the unit of measure for volume. Stress the need for precision when indicating units of measure. If helpful, point out how the unit of measure for area is square units (unit times unit equals unit squared) and for volume is cubic units (unit times unit times unit equals unit cubed). Step 3: Ask students to find a relationship between the lengths of the sides and the volume. If necessary, show students the volume formula for rectangular prisms on the poster: $V(\text{volume}) = l \cdot w \cdot h$. Since the dimensions of the rectangular prism are 3 x 4 x 5, the volume equals 60 cubic units. Step 4: On the board, draw a cylinder with a radius of 3 feet and a height of 4 feet. Show students the volume formula for cylinders on the poster: $V = \pi \cdot r^2 \cdot h$. Demonstrate how the volume of this cylinder is 113.04 cubic feet ($3.14 \times 3^2 \times 4 = 113.04$). Step 5: Finally, draw a square pyramid on the board with a base length of 6 feet and a base width of 6 feet. The height of the pyramid is 4 feet. Be sure to point out the difference between height and slant length, as students might confuse the two. Show students the volume formula for square pyramids on the poster: $V = \frac{1}{3} B A h$. Demonstrate that the volume of this pyramid is 48 cubic feet ($\frac{1}{3} \times 36 \times 4 = 48$ cubic feet). Step 6: In groups or in pairs, with use of calculators as an option, ask students to calculate the volume of: A rectangular prism with length 6.5 meters, width 7 meters, and height 12.5 meters. Volume of the rectangular prism is 568.75 cubic meters ($6.5 \times 7 \times 12.5$). A cylinder with a radius of 9 centimeters and height of 7.25 centimeters (use 3.14 for pi and round to the nearest hundredth). Volume of the cylinder is 1,843.97 cubic centimeters ($3.14 \times 9^2 \times 7.25$). A square pyramid with a base side length of 12.5 inches and a height of 9 inches. Volume of the square pyramid is 468.75 cubic inches ($\frac{1}{3} \times 12.5 \times 12.5 \times 9$). Step 7: Distribute the Setting the Stage With Geometry Worksheet: Pack it Up! What Will Fit? printable and have students complete the worksheet independently. Step 8: Check for Understanding: Go over all correct answers as a class, referring to the Answer Key: Setting the Stage With Geometry printable. Provide the Setting the Stage With Geometry Reference Sheet: Perimeter, Area, Surface Area, and Volume printable for students who are having trouble remembering which formulas go with which polygon. Use the following printables as extensions for this lesson: Setting the Stage With Geometry Take-Home Activity: The Perfect Fit printable Turn Up the Volume! Bonus Worksheet printable Standards Grade 7-8: Geometry (CCSS 7.G.B.6 and 8.G.C.9) Grades 6-8: Reason Abstractly and Quantitatively, Construct Viable Arguments, Use Appropriate Tools Strategically, and Look for and Attend to Precision (CCSS MP2, 3, 5, and 6); NCTM Geometry For more information, download the comprehensive Standards Chart: Geometry printable.

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