



GRADE 1 SUPPLEMENT

Set C5 Geometry: 3-D Shapes Around Us Calendar Pattern

Includes

January Calendar Pattern

C5.1

Skills & Concepts

- ★ identify, name, and describe 3-D objects in everyday situations
- ★ identify, describe, and extend growing patterns
- ★ read aloud numerals from 0 to 31
- ★ identify ordinal positions through the 31st

Bridges in Mathematics Grade 1 Supplement

Set C5 Geometry: 3-D Shapes Around Us Calendar Pattern

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Bridges in Mathematics is a standards-based K–5 curriculum that provides a unique blend of concept development and skills practice in the context of problem solving. It incorporates the Number Corner, a collection of daily skill-building activities for students.

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Set C5 ★ January Calendar Pattern



CALENDAR GRID

3-D Shapes Around Us

Overview

This set of Calendar Grid markers replaces the student-made markers in the month of January, and provides opportunities for first graders to identify, describe, and compare cylinders, rectangular prisms, spheres, and cubes as they appear in the world around us.

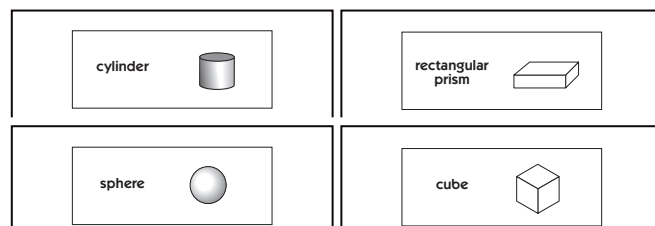
Skills & Concepts

- ★ identify, name, and describe 3-D objects in everyday situations
- ★ identify, describe, and extend growing patterns
- ★ read aloud numerals from 0 to 31
- ★ identify ordinal positions through the 31st

You'll need

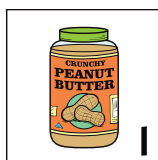
- ★ Calendar Grid pocket chart
- ★ Month and Year Calendar Grid cards
- ★ January 3-D Shapes Around Us Calendar Markers (available at <http://gotomlc.org/calmarkers>) Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.
- ★ 3-D Shape Labels (pages C5.6–C5.7, see Advance Preparation)
- ★ 4 pieces of 18" × 24" chart paper (see Advance Preparation)
- ★ helper jar containing a popsicle stick for each child with his/her name on it
- ★ *Cubes, Cones, Cylinders & Spheres* by Tana Hoban (optional)

Advance Preparation Run 1 copy of the shape labels. Cut them apart, and glue each one to the top of a piece of 18" × 24" chart paper. Post the 4 charts near your calendar display area.



Introducing the 3-D Shapes Around Us Calendar Grid Pattern

Open your first Number Corner lesson in January by directing students' attention to the calendar grid. Place the first marker in the correct pocket, and ask children to pair-share observations.



January Calendar Pattern (cont.)

What do they notice about this marker? After a few moments, pull sticks from your helper jar to call on children to share their observations with the class.

Students *It's round.*

It looks like a jar.

It has a label around it..

It's peanut butter. There's a picture of peanuts on the front!

After the children have had a chance to share some of their observations, explain that the calendar markers this month will feature several different 3-dimensional shapes. Have students look at the shapes charts you have prepared. Read the name of each shape to the class, and ask students to identify the one that matches the shape of the object on the first marker.

Students *It's a cylinder! The picture on Marker 1 is a cylinder!*

It's a jar of peanut butter, and it matches the cylinder shape.

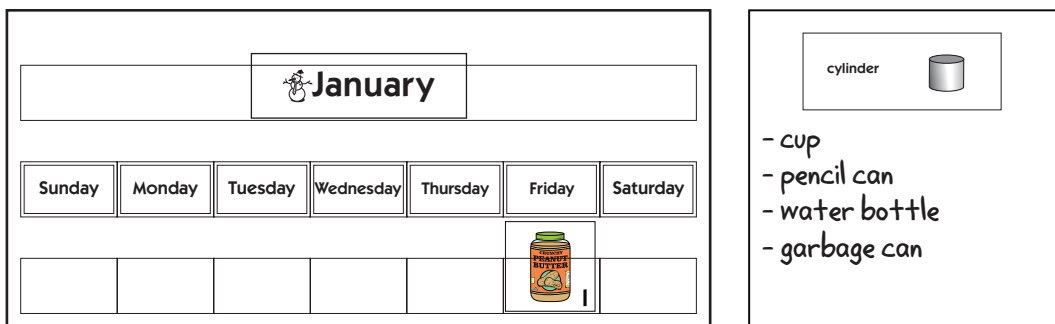
Now ask students to look around the room very quietly. Can they see other examples of cylinders from where they are sitting? Ask them to raise a hand as soon as they spot something they think is a cylinder. After a few moments, pull sticks from your helper jar to choose a few children to share their ideas with the class. As you call on each student, ask him or her to walk over to the object, point to it or bring it back to the discussion area if it is small, and explain how he or she knows that the object is a cylinder.

Students *Here's a cup from Teacher's desk. It's round like the one in the picture.*

The pencil can because it looks like the picture of a cylinder.





My water bottle, because it's straight up and down, and it has a circle on the top and bottom.

The garbage can looks like the picture on the calendar, but it's too big to bring over here.



Post the markers needed to bring your calendar up to date the first day you are back in school after winter break. Have children refer to the four charts you have posted to identify each of the shapes, but limit the search and discussion described above to the first marker. Take time to have students find examples of rectangular prisms, spheres, and cubes in the days that follow.










January Calendar Pattern (cont.)

 cylinder	 rectangular prism	 sphere	 cube
<ul style="list-style-type: none"> - cup - pencil can - water bottle - garbage can 	<ul style="list-style-type: none"> - book - puzzle box - lunch box - book shelf 	<ul style="list-style-type: none"> - playground ball - tennis ball - world globe - my orange 	<ul style="list-style-type: none"> - Unifix cube - wooden block - alphabet block - tissue box

Continuing through January with the Calendar Grid

Each day, have a helper point to the markers that have been posted in the pocket chart as the class names the shape of each object. Have children predict what the next marker will show before you place it on the chart. Once the new marker has been posted, ask students to share their observations.

Teacher *Let's say the shape of the object on each marker we've posted so far, and then make some predictions about what we'll see on the markers for Saturday, Sunday, and Monday. Brianna, will you point to the markers as we name the shape of each object?*

						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					 1	 2
 3	 4	 5	 6	 7	 8	





Students *Cylinder, rectangular prism, sphere, cube; cylinder, cylinder, rectangular prism, rectangular prism.*

Teacher *Talk with the person next to you about what shape we might see on the marker for Saturday. Put your thumbs up when you have an idea, and I'll pull sticks from the jar to pick children to share with the class.*

Students *I think it's going to be a box, because the ones before are shaped like boxes. I think a sphere, like maybe a soccer ball, because we had 2 cylinders and then 2 rectangle things, so maybe it'll be 2 spheres next. I think it'll be some kind of ball for Saturday and Sunday, and then a cube for today.*

As the month progresses, work with the class to list additional examples of each shape on your charts. Summarize students' informal ideas about how to identify each shape as well.

January Calendar Pattern (cont.)

<p style="text-align: center;">cylinder </p> <ul style="list-style-type: none"> - cup - pencil can - water bottle - garbage can - pop can - jelly jar <p>A cylinder has straight sides, and circles on the top and bottom.</p>	<p style="text-align: center;">rectangular prism </p> <ul style="list-style-type: none"> - book - puzzle box - lunch box - book shelf - toy box - pack of paper <p>A rectangular prism has a rectangle on every side.</p>	<p style="text-align: center;">sphere </p> <ul style="list-style-type: none"> - playground ball - tennis ball - world globe - my orange - beachball - snowball <p>A sphere is round all the way around. It's like a ball.</p>	<p style="text-align: center;">cube </p> <ul style="list-style-type: none"> - Unifix cube - wooden block - alphabet block - tissue box - package - polydron cube <p>A cube has a square on every side (face).</p>
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Here is a summary of the questions and prompts mentioned so far, as well as some others you might use through the month:

- Let's name the shape of the object on each marker.
- What shape do you think we'll see on the next marker? Why?
- Can you find objects around the room that are cylinders (rectangular prisms, spheres, cubes)?
- How can you tell if something is a cylinder (rectangular prism, sphere, cube)?
- What is the difference between a cylinder and a sphere (a rectangular prism and a cube, a cylinder and a rectangular prism)?
- What shape do you see on the 4th (9th, 13th, 21st) marker?
- I see a marker on the calendar grid that has a picture of two things that are square on every side, as well as on the top and on the bottom. The objects on this marker are small. Each one has a different number of dots on each face. Which marker am I thinking of?
- What shape do you predict we'll see on the 23rd (25th, 28th, 30th) marker? How do you know?
- Is there a pattern in the markers this month? If so, what is it, and how do you know it's a pattern?




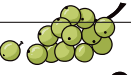
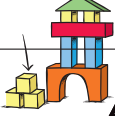

















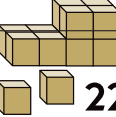



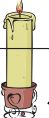





Note Just as a square is a rectangle with equal side lengths, a cube is a rectangular prism with equal edge lengths.

Extensions

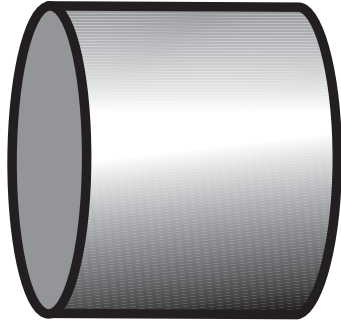
- Challenge children to build each of the shapes featured this month with polydrons, blocks, or other construction materials (e.g., legos, construx, tinkertoys, and so on). Is it possible to build a sphere or a cylinder with polydrons? Why or why not? What about a cube or a rectangular prism? What is the largest cube or rectangular prism students can build with the collection of polydrons in your classroom?
- Work with the class to create a display for each of this month's featured shapes by gathering objects from around the classroom and bringing examples from home.
- Choose one shape each week as the focus of a school-wide shapes search. Encourage students to look for examples of the shape on the playground, the gym, the library, the cafeteria, and so on. Consider snapping photos of some of the better examples to add to your shapes charts in class.
- Share *Cubes, Cones, Cylinders, & Spheres* with your class sometime during the month. In this wordless book, photographer Tana Hoban identifies four 3-D shapes before showing each in contexts that are familiar to many children (alphabet blocks, ice cream cones) as well as contexts a child might encounter on a trip to the city, country, or even Fantasy Land (traffic cones, bales of hay, a castle).

January Calendar Pattern (cont.)

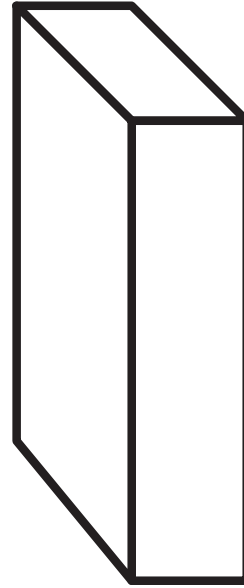
NOTE Below is a representation of the January calendar grid. The full-size calendar markers are available at <http://gotomic.org/calmarkers>.

 January						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				 1	 2	 3
 4	 5	 6	 7	 8	 9	 10
 11	 12	 13	 14	 15	 16	 17
 18	 19	 20	 21	 22	 23	 24
 25	 26	 27	 28	 29	 30	 31

3-D Shape Labels page 1 of 2

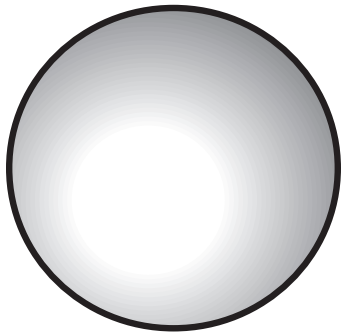


cylinder

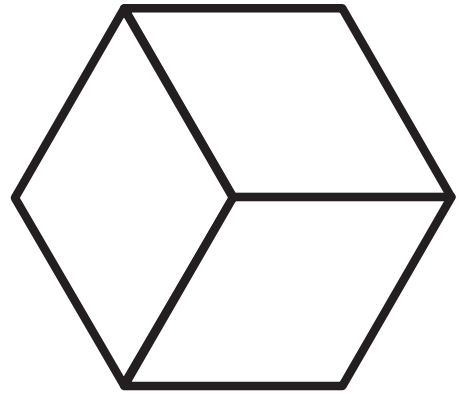


**rectangular
prism**

3-D Shape Labels page 2 of 2

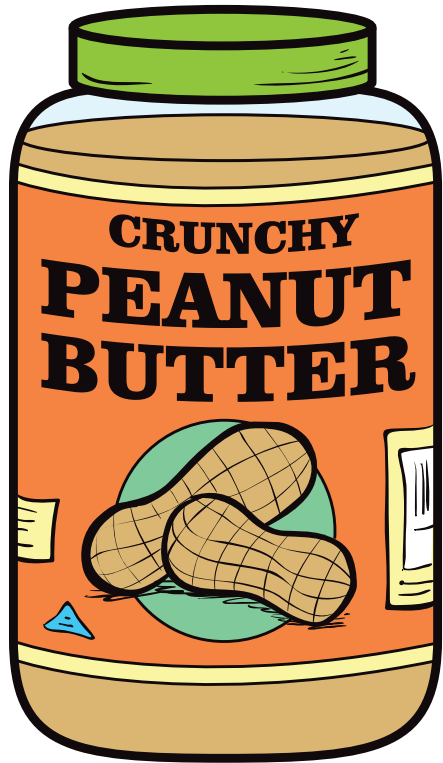


sphere



cube

January 3-D Shapes Around Us Calendar Markers Sheet 1 of 16

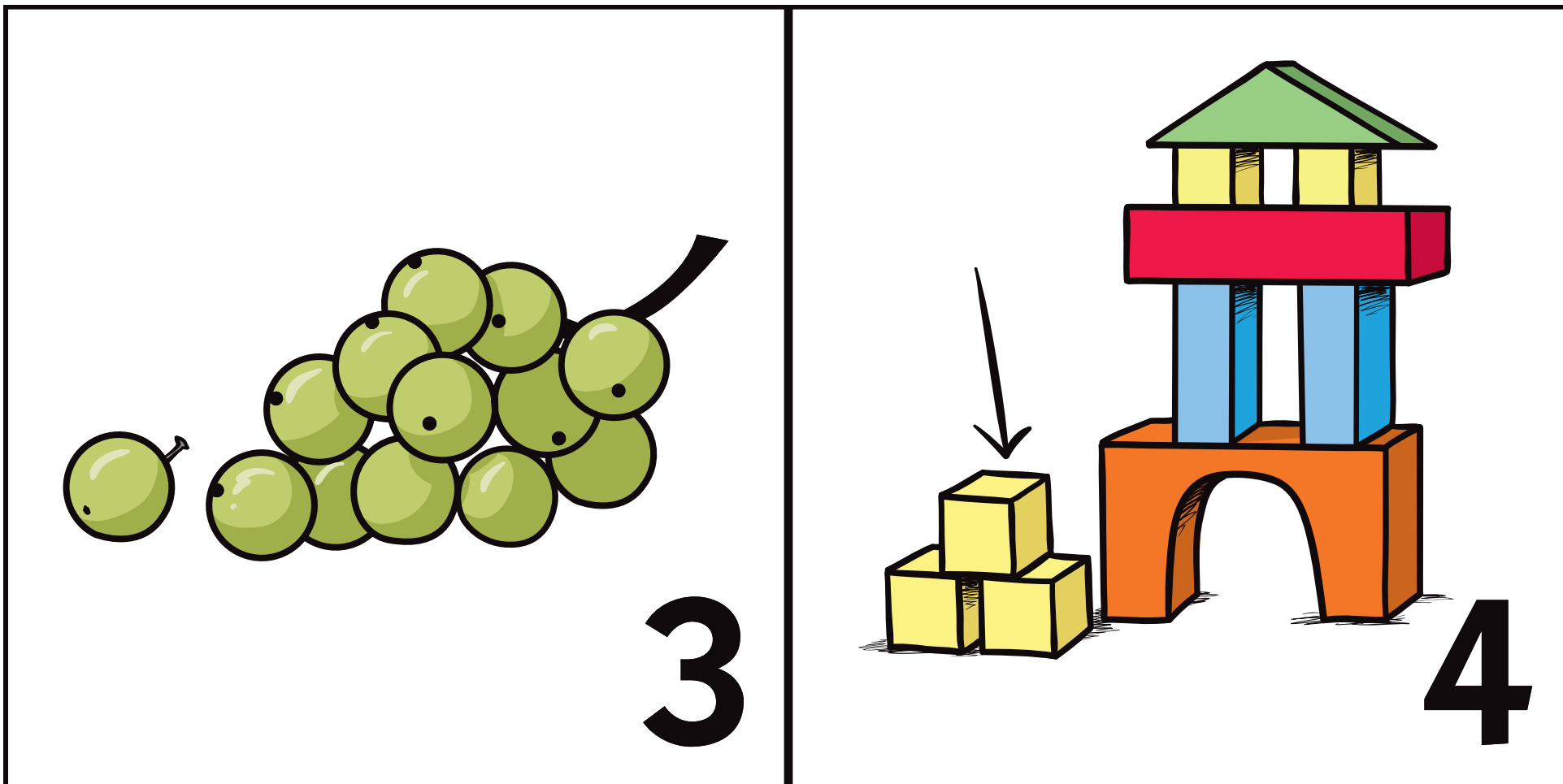


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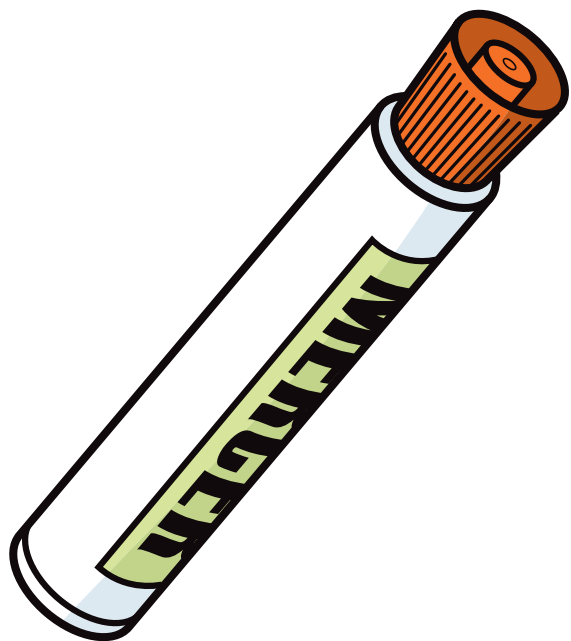


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January 3-D Shapes Around Us Calendar Markers Sheet 2 of 16



January 3-D Shapes Around Us Calendar Markers Sheet 3 of 16



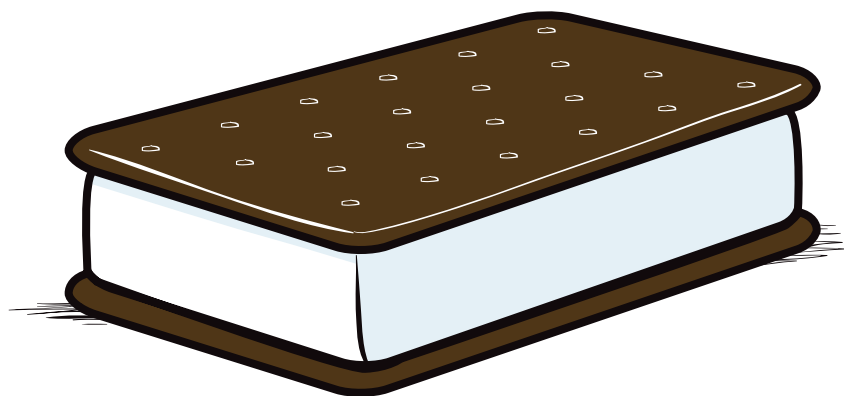
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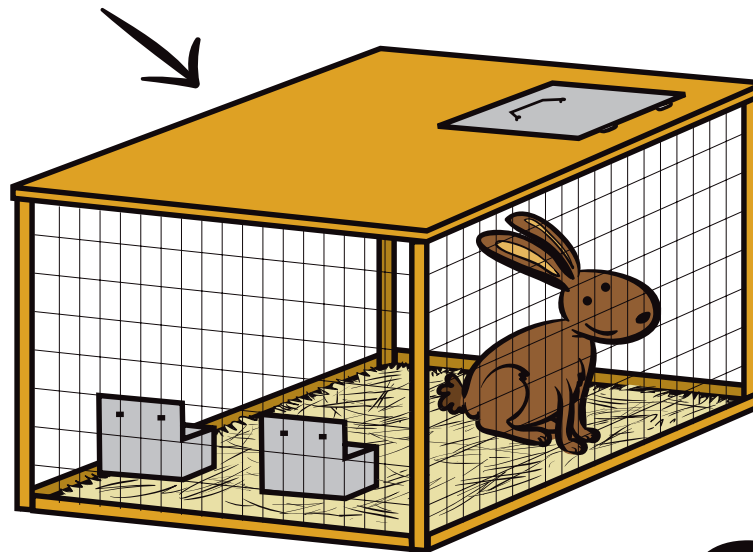
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Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

January 3-D Shapes Around Us Calendar Markers Sheet 4 of 16



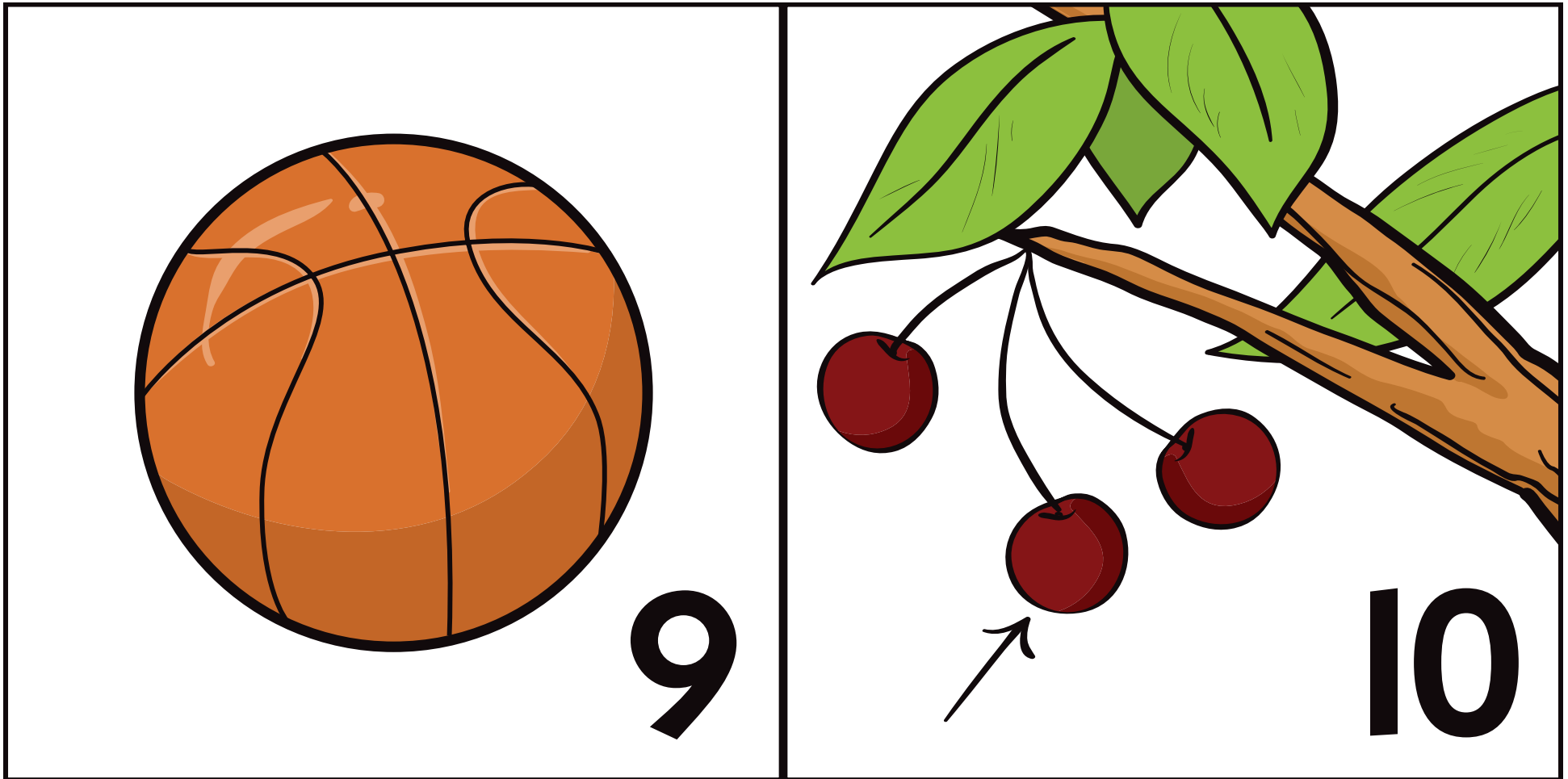
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Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

January 3-D Shapes Around Us Calendar Markers Sheet 5 of 16



January 3-D Shapes Around Us Calendar Markers Sheet 6 of 16



January 3-D Shapes Around Us Calendar Markers Sheet 7 of 16



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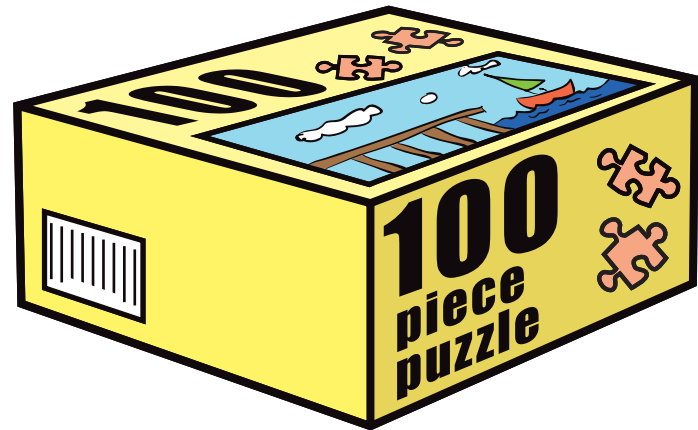


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January 3-D Shapes Around Us Calendar Markers Sheet 8 of 16

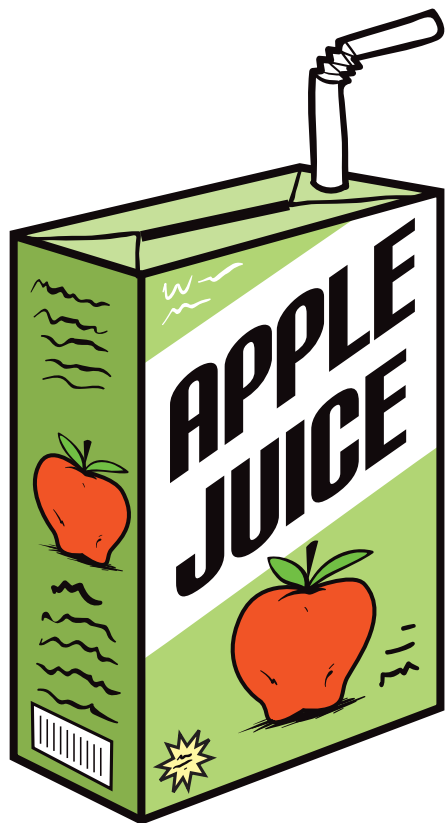


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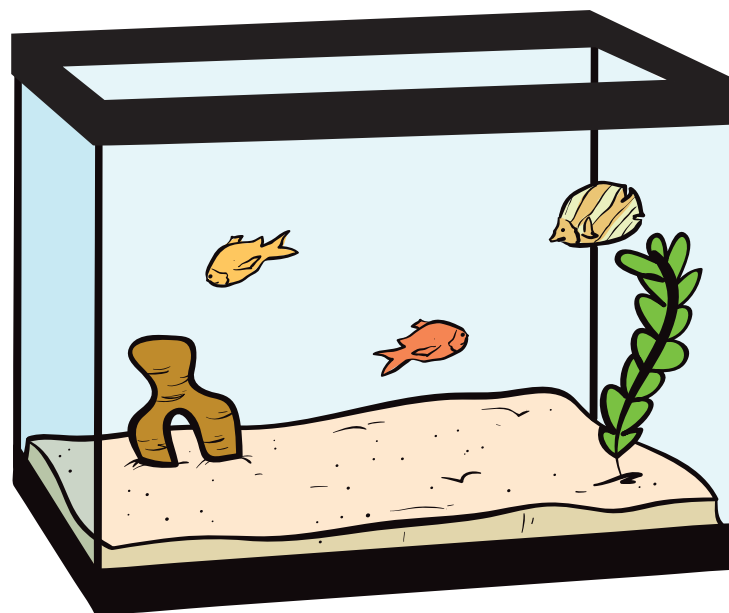


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January 3-D Shapes Around Us Calendar Markers Sheet 9 of 16

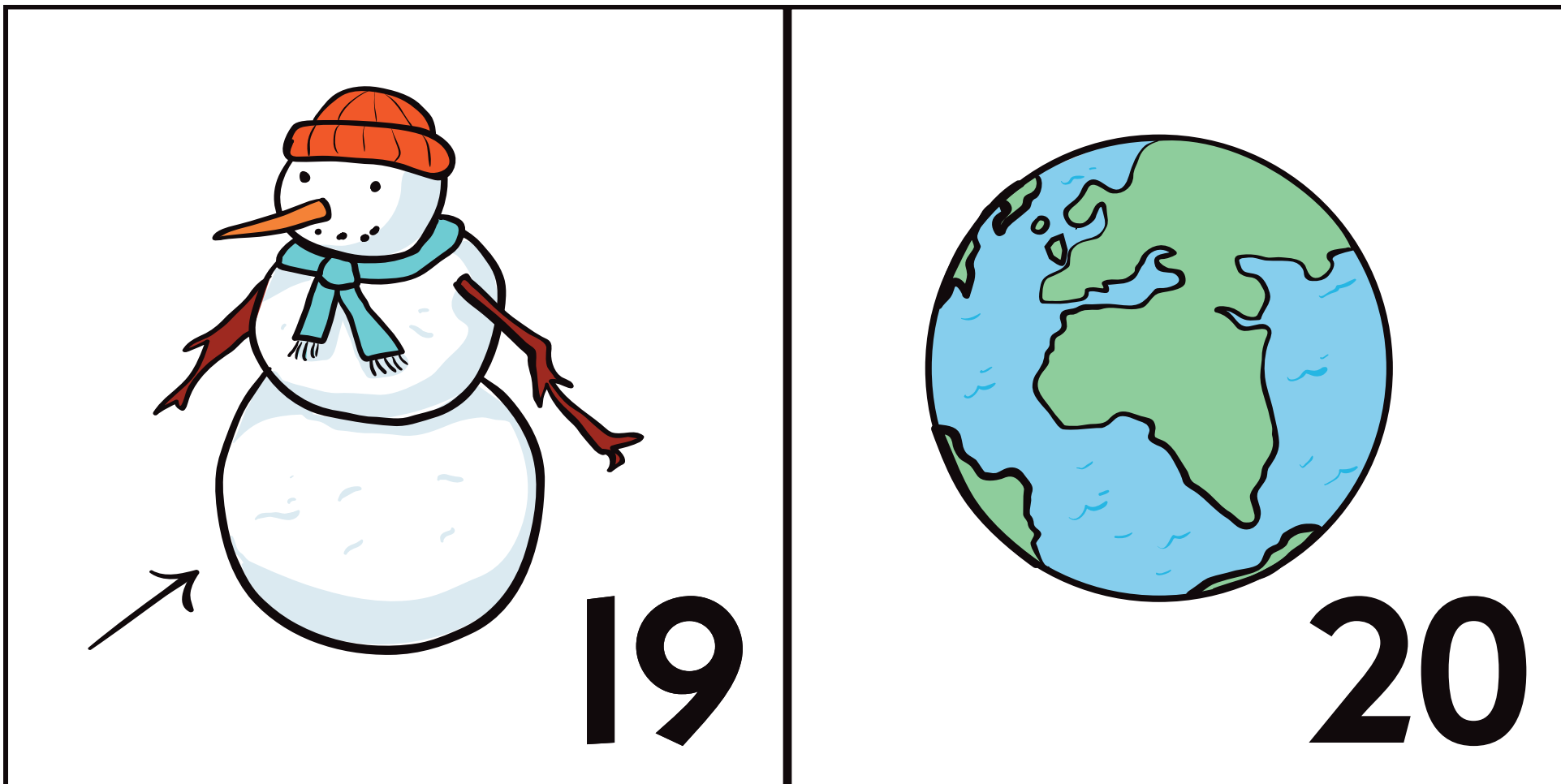


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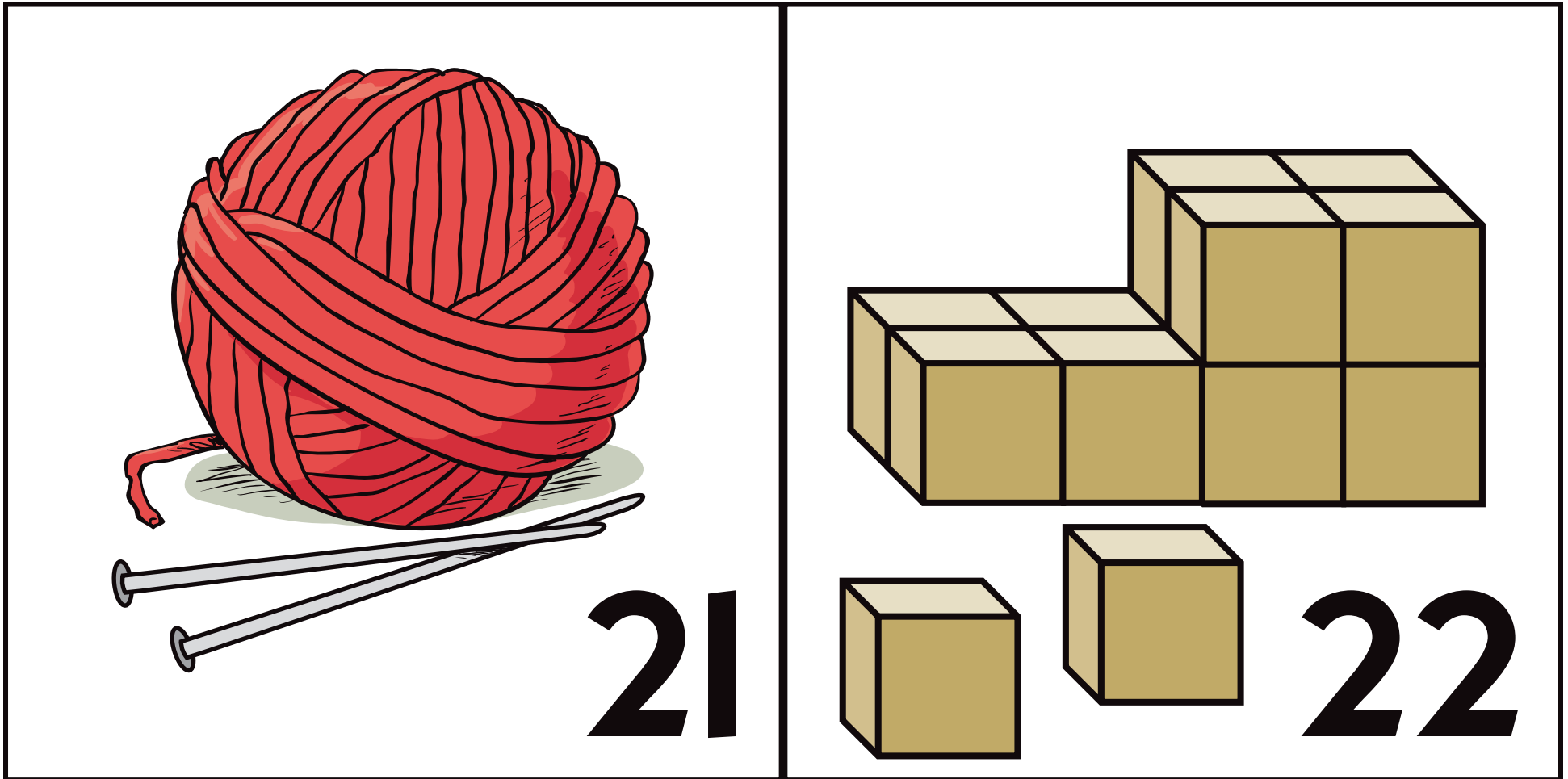


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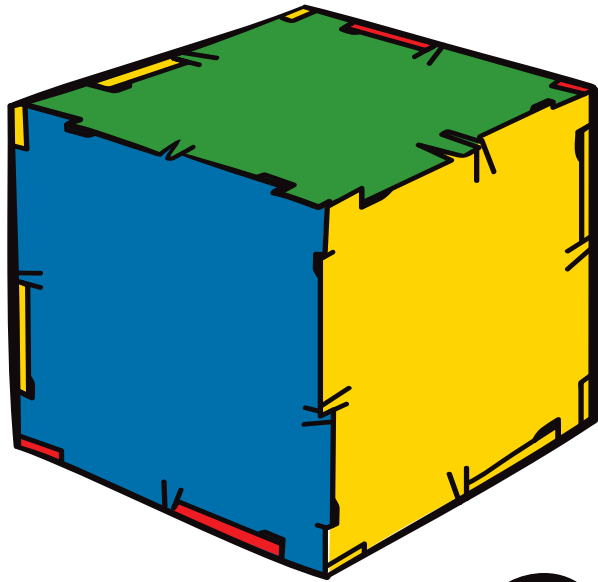
January 3-D Shapes Around Us Calendar Markers Sheet 10 of 16



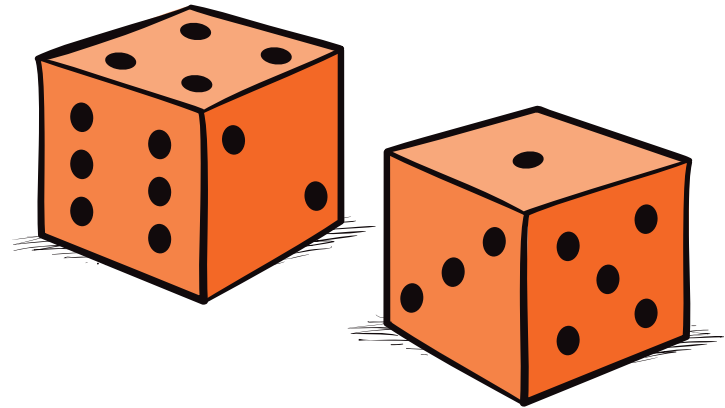
January 3-D Shapes Around Us Calendar Markers Sheet 11 of 16



January 3-D Shapes Around Us Calendar Markers Sheet 12 of 16

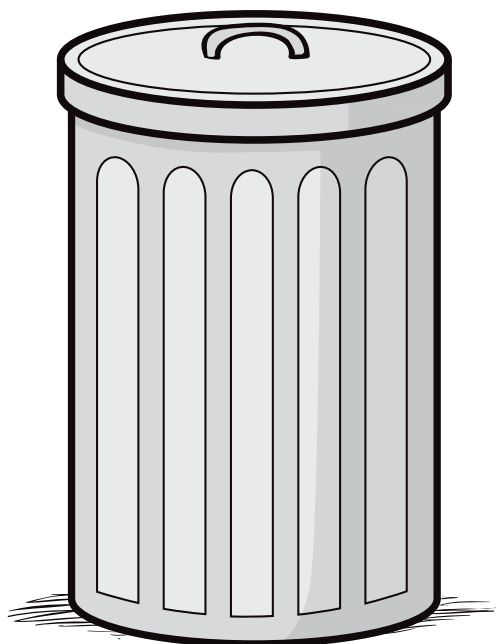


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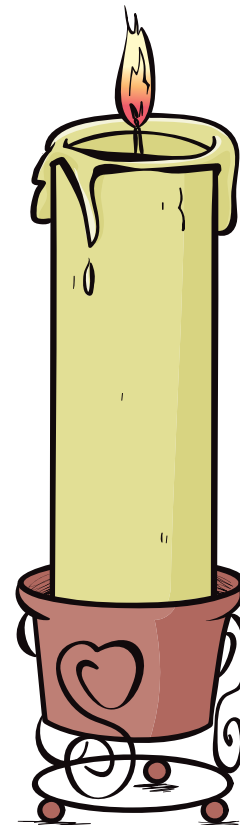


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January 3-D Shapes Around Us Calendar Markers Sheet 13 of 16



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Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

January 3-D Shapes Around Us Calendar Markers Sheet 14 of 16

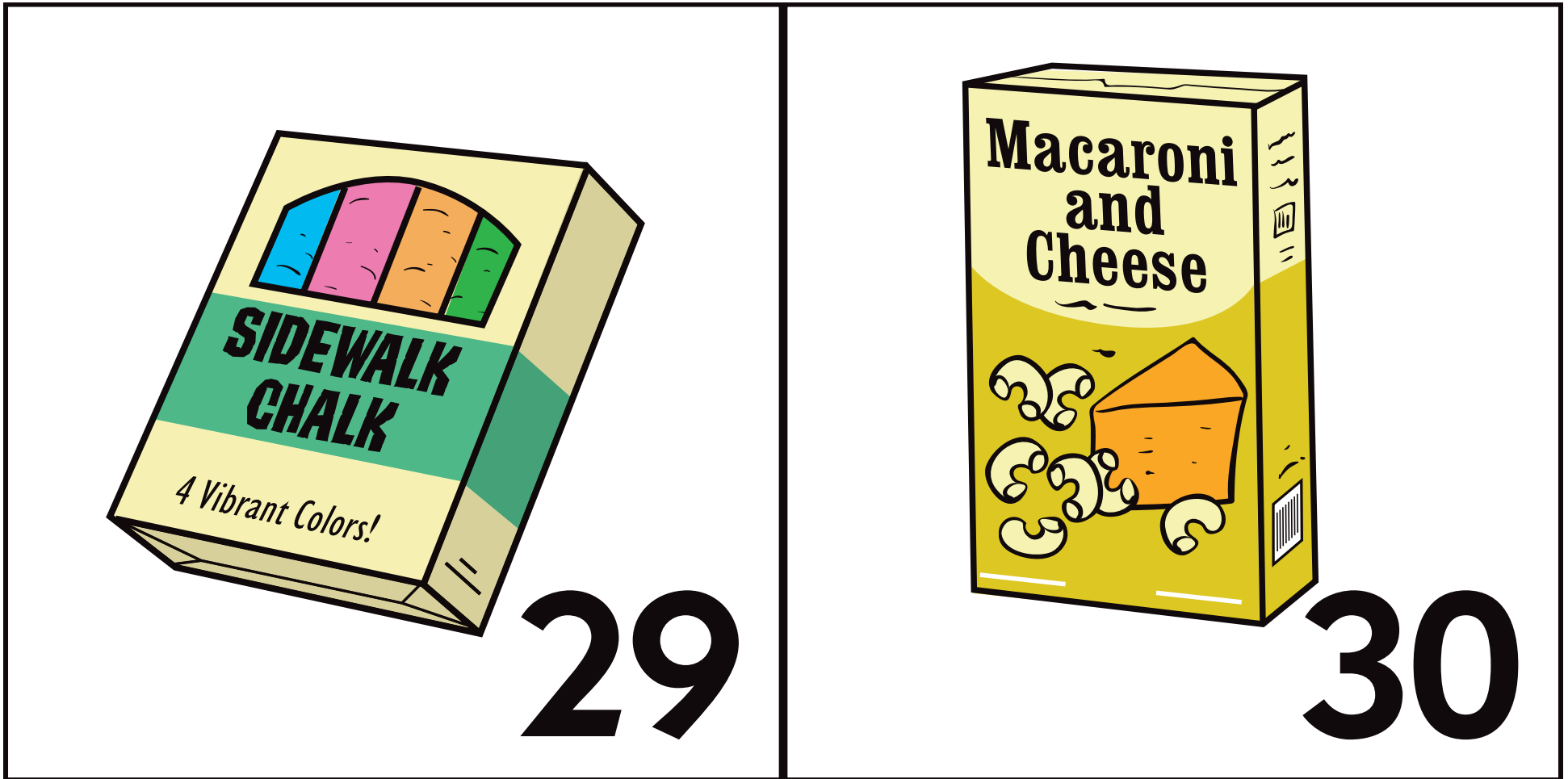


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28

January 3-D Shapes Around Us Calendar Markers Sheet 15 of 16



Print 1 copy of the calendar marker sheets, preferably in color, single-sided, on white cardstock. Cut the calendar markers apart and laminate if desired.

January 3-D Shapes Around Us Calendar Markers Sheet 16 of 16

