Visual Learning Animation

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Why should you label the faces of the solid figure before you cut it open? [So you do not forget which face is the top, bottom, left, right, back, and front]

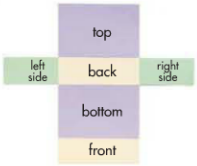
Step 2

Open up the box along the edges.

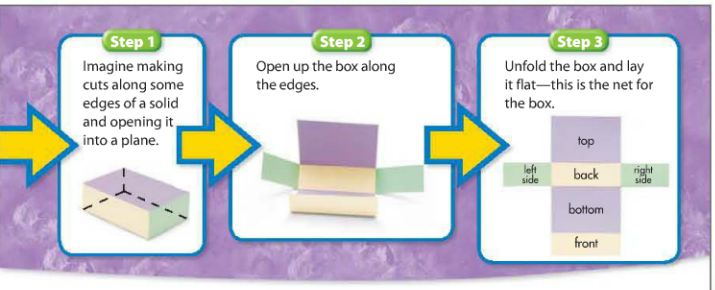
Should you cut on all the edges? Explain. [No; you want to cut so all of the faces remain attached to each other.] *How do you know how many edges to cut?* [Cut one at a time and open up the figure one face at a time until the figure is completely flat.]

Step 3

Unfold the box and lay it flat—this is the net for the box.



What shapes do you see when you unfold the box? [6 rectangles] *Do you think that this is the only way to cut open the box?* [No]



Problem Solving

10. A net has 4 large rectangles and 2 small rectangles. What solid figure might it make?

A Rectangular prism

B Square pyramid

C Triangular prism

D Rectangular pyramid

11. Molly spent $120 on two items. One cost $10 more than the other. Which shows the correct cost for each?

A $70, $50

B $50, $60

C $60, $70

D $55, $65

12. Strategy Focus When some rock music is played unamplified its sound has been measured at 62 decibels. Sound for amplified music can be measured at 124 decibels. Draw a picture and write an equation to find the difference between the number of decibels measured.

See margin.

13. One company offers customers an Internet coupon to get a $2 discount off a purchase from their Web site. If the value of the coupons downloaded so far is $6,000, how many coupons have been downloaded?

3,000 coupons

14. Algebra Diane is thinking of a number. She doubles it and adds 10. Her result is 50. Which equation could you use to find Diane's number?

A $(2 \times n) - 10 = 50$

B $2 \times 10n = 50$

C $2 \times n = 50$

D $(2 \times n) + 10 = 50$

For **15**, use the table below.

Temperature

Day	1	2	3	4	5	6	7
Temperature °F	34°	45°	37°	39°	48°	29°	36°

15. In what fraction of the days was the temperature between 30°F and 40°F? In what fraction was the temperature greater than 40°F?

$\frac{4}{7}$; $\frac{2}{7}$

12.

$124 - 62 = d$

$d = 62$

Problem Solving

Exercise	Content
10	Identifying Solid Figures
11	Multiple Step ($120 - 10 = 110$; $110 \div 2 = 55$)
12	Write Equations ($124 - 62 = d$)
13	Division ($6{,}000 \div 2$)
14	Recognize Relationships Equations
15	Analyze Data Write Fractions

Students use underlying processes and mathematical tools for Exercises 10–15. Remind students to check for reasonableness when solving each problem.

Exercise 11

Test-Taking Tip: Make Smart Choices Remind students to eliminate wrong answers. *When you buy two items and want to find the total cost, what do you do?* [Add] *If you add all of the choices, which choices can you eliminate because the items don't total $120?* [All except D]

Exercise 14

Language of Math: Everyday Vocabulary Students may not recognize that the word *double* means to multiply by 2. *Which answer choices show a number being multiplied by 2?* [A, C, and D] *Which choice shows 10 added to the product?* [D]

Early Finishers *Try to make a net of a pyramid or a cube out of construction paper and write the steps on how you made it.*