Name:

Match Scale Copies

What You Need

- Original Figure Cards
- New Figure Cards

What You Do

KEEP IN MIND . . .
For a figure to be a scale copy, all corresponding sides of the original figure and the scale copy must have the same scale factor.

1. Place the three **Original Figure Cards** faceup.
2. Shuffle the **New Figure Cards** and distribute all of them to the players.
3. Determine if each of your **New Figure Cards** shows a scale copy of one of the original figures. If so, place it next to that **Original Figure Card**. If not, place it in a discard pile.
4. Work together as a group to check that each card is placed correctly.
5. Determine the scale factor that was used for each scale copy.
6. Use scale factors to verify that each card in the discard pile does not show a scale copy.

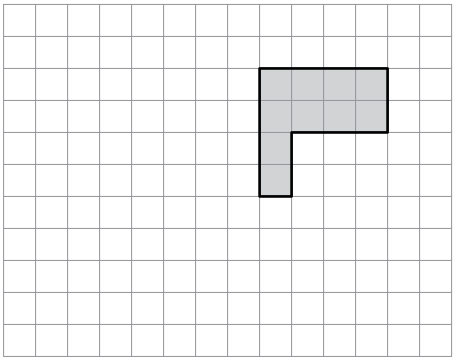
Check Understanding

George has a rectangular piece of artwork that is 12 inches by 15 inches.
He wants to make a scale copy of the artwork that is 15 inches by 20 inches.
Is this possible? Explain.

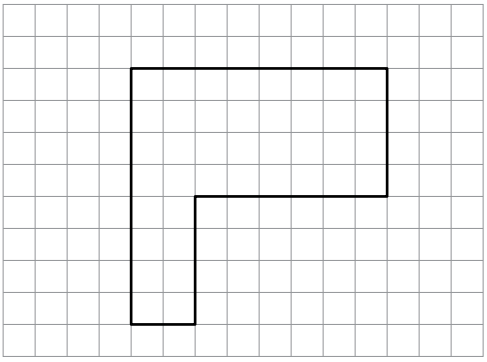
Go Further

Make a scale copy of one of the original figures. Use a scale factor different than those in the activity. Label the lengths of the sides of your scale copy. Trade scale copies with a partner and check each other's work.

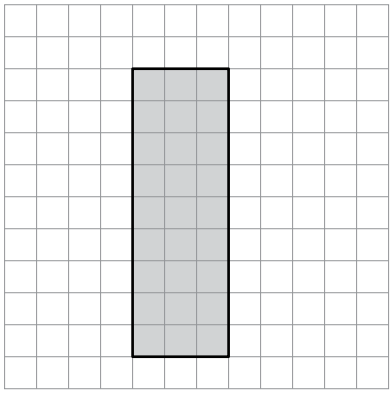
Original Figure A



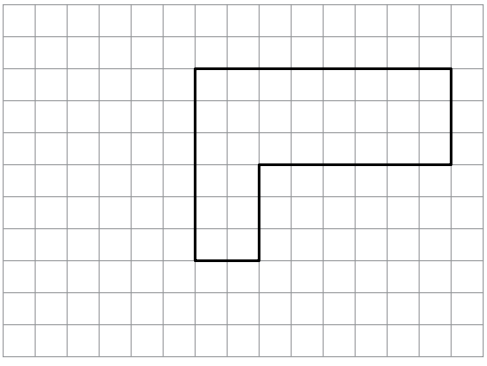
New Figure 1



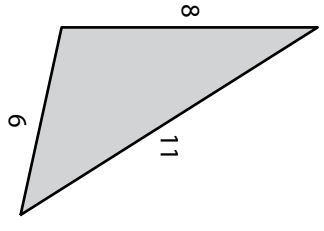
Original Figure B



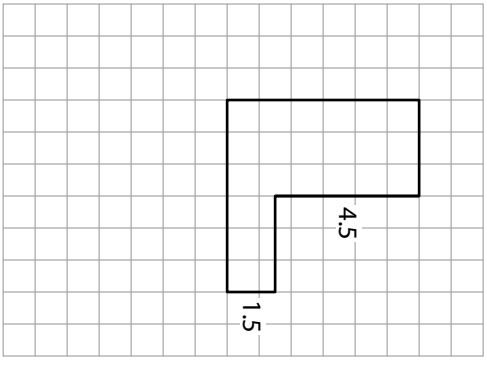
New Figure 2



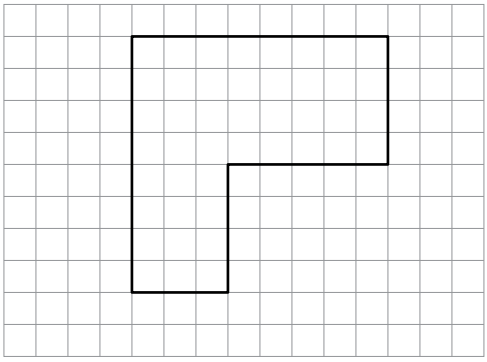
Original Figure C



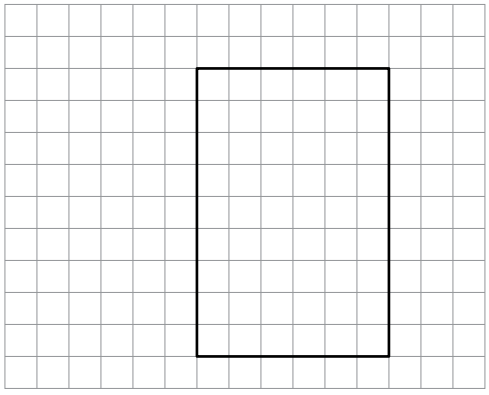
New Figure 3



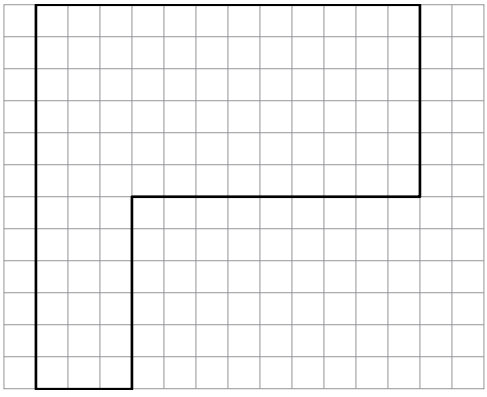
New Figure 4



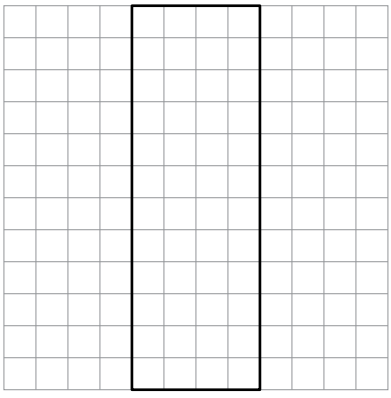
New Figure 7



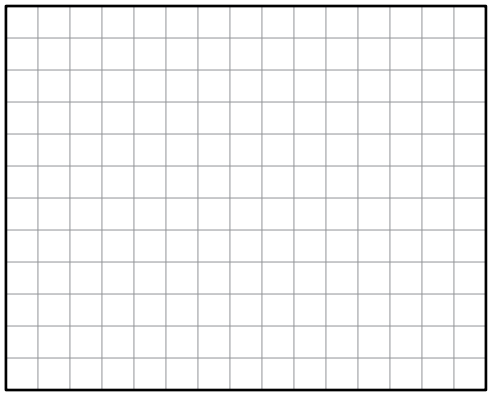
New Figure 5



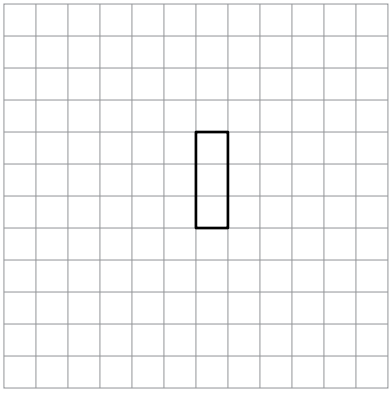
New Figure 8



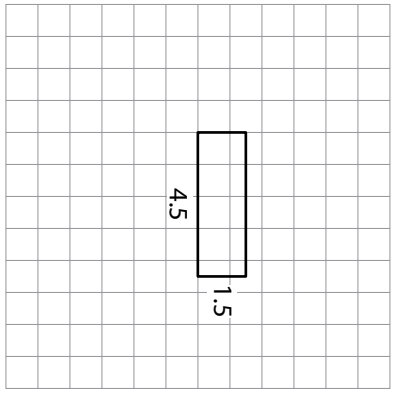
New Figure 6



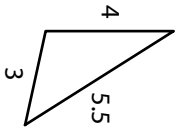
New Figure 9



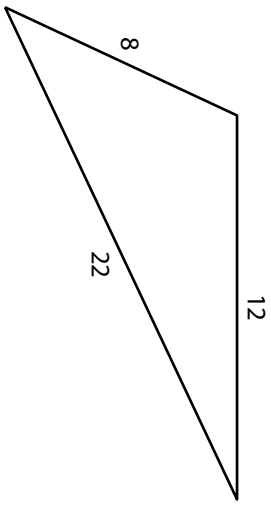
New Figure 10



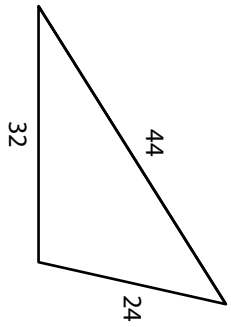
New Figure 11



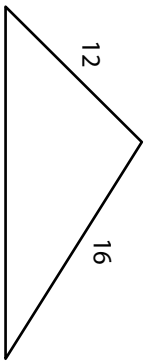
New Figure 12



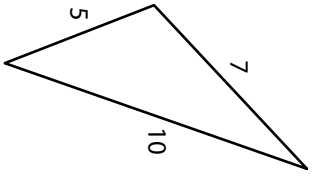
New Figure 13



New Figure 14



New Figure 15



Names:

Recipe Scramble

What You Need

- Recipe Card
- Recording Sheet
- Measurement Tiles

What You Do

KEEP IN MIND . . .
Once you identify the constant of proportionality in a problem, you can create a double number line, an equation, or a table to solve the problem.

1. Place all the **Measurement Tiles** faceup on the table.
2. Read the recipe on the **Recipe Card**.
3. Work as a group to use proportional reasoning to adjust the recipe for making the different total amounts shown on the **Recording Sheet**.
4. Place **Measurement Tiles** in the correct places on the table to show the adjusted ingredient amounts. Not all tiles will be used.
5. The letters on the unused tiles can be unscrambled to spell a word. Work together to determine the word and record it on the bottom of the **Recording Sheet**.

Check Understanding

Diego reads 40 pages of a book in 50 minutes. If he reads at the same constant rate, how many pages will he be able to read in 80 minutes?

Go Further

Add an ingredient and its amount to the recipe. Then, switch with a partner and adjust how much of the new ingredient is needed for the different total amounts used in the activity.

Names:

Recipe Scramble

RECIPE CARD

Party Mix Recipe

- 8 c corn or rice cereal
- 3 c pretzel sticks
- 1 c peanuts
- $\frac{1}{4}$ c butter, melted
- 2 tbsp grated Parmesan cheese
- $\frac{1}{2}$ tsp salt

Makes 3 quarts.

Names:

Recipe Scramble

RECORDING SHEET

Ingredient	Amount Needed to Make $1\frac{1}{2}$ Quarts	Amount Needed to Make 2 Quarts	Amount Needed to Make 4 Quarts
Cereal			
Pretzel Sticks			
Peanuts			
Butter			
Parmesan Cheese			
Salt			

The unscrambled word is _____.

E $\frac{1}{2}$ c	M $\frac{1}{8}$ c	N $1\frac{1}{3}$ tbsp	T $\frac{1}{6}$ tsp
T $\frac{1}{3}$ c	N 2 c	R $\frac{1}{4}$ tsp	A $5\frac{2}{3}$ c
U $1\frac{1}{2}$ c	A $10\frac{2}{3}$ c	C $1\frac{3}{4}$ tsp	B $1\frac{2}{3}$ tbsp
F 4 c	S 1 tbsp	P $\frac{2}{3}$ c	A $2\frac{2}{3}$ tbsp
B 4 c	L $\frac{1}{6}$ c	R $\frac{1}{3}$ tbsp	E $1\frac{1}{2}$ tsp
E 3 c	D $5\frac{1}{3}$ c	F $1\frac{1}{3}$ c	E 3 tbsp
D $\frac{1}{3}$ tsp	L $\frac{1}{4}$ c	I $\frac{2}{3}$ tsp	

Name:

Use Markdowns

What You Need

- Recording Sheet, 1 per player
- Price Tag Cards
- Markdown Cards
- Tax Cards

What You Do

1. Shuffle the **Price Tag Cards** and place them facedown in a pile. Repeat with the **Markdown Cards** and **Tax Cards**, placing each set facedown in separate piles.
2. Take turns. On your turn, select the top card from each pile. Apply the markdown and tax to the price to calculate the total cost. When necessary, round to the nearest cent.
3. The other players check your work. Record your total cost for Round 1 on your **Recording Sheet**.
4. The player with the lowest total cost wins the round. Write the name of the round winner on your **Recording Sheet**.
5. Continue for four rounds. The player with the lowest total cost for the most rounds wins. If there is a tie, the tied players calculate one more discounted price with tax. The player with the lowest price wins.

Check Understanding

Irene buys a backpack. The regular price is $55, and it is on sale for 30% off. The sales tax is 5%. What is the total cost of the backpack? Round to the nearest cent. Show your work.

Go Further

Is it possible in this game for two different sets of a **Price Tag Card**, a **Markdown Card**, and a **Tax Card** to result in the same discounted price? Explain.

Name:

Use Markdowns

RECORDING SHEET

	Total Cost	Round Winner
Round 1		
Round 2		
Round 3		
Round 4		

$25	$30	$35
$40	$45	$50
$55	$60	$65
$42	$38	$51
$49	$27	$62
$32	$29	$57
$58	$43	$39

5% OFF	10% OFF	15% OFF
20% OFF	25% OFF	30% OFF
35% OFF	40% OFF	45% OFF
50% OFF	55% OFF	60% OFF
65% OFF	70% OFF	75% OFF
5% OFF	10% OFF	15% OFF
20% OFF	25% OFF	50% OFF

1% TAX	2% TAX	3% TAX
4% TAX	5% TAX	6% TAX
7% TAX	8% TAX	9% TAX
10% TAX	11% TAX	12% TAX
13% TAX	1% TAX	2% TAX
3% TAX	4% TAX	5% TAX
6% TAX	7% TAX	8% TAX