



Unit 10 Study Links Packet

Name _____

Students and Parents: Attached is the packet of Study Links for this math unit. Complete only the assigned Study Link for homework. The assigned Study Link will be noted in the planner of your go-home folder. Please do not take apart the packet.

Due Date:

Parent Initial:

_____ *Study Link 10-1 A Reflected Image

_____ Study Link 10-2 Lines of Reflection

_____ Study Link 10-3 Reflections

_____ *Study Link 10-4 Line Symmetry in the Alphabet

_____ *Study Link 10-5 Geometric Patterns

_____ *Study Link 10-6 Positive and Negative Numbers

Parents : When the study link is done and you have gone over it with your child (answer key is in pink family letter), please initial the blank next to the completed link. When you see an * by the Study Link, this signals that concepts on the assignment are going to be assessed at the end of the unit. If there is an * by the Study Link number and your child struggled with the concepts on the Study Link, be sure to keep practicing the concepts in preparation for the unit assessment.

4th Grade Students - Be responsible. Once you get a parent's initials, put the packet (do not tear off sheets) in your go-home folder so it comes back to school the next day. The packet will be checked in as a classroom assignment!

Unit 10

Lesson 10.1

- I can use a transparent mirror to draw the reflection of a preimage and the other half of a symmetrical image.

Lesson 10.2, 10.3, 10.4

- I can draw shapes that have zero to two lines of symmetry .

Lesson 10.5, 10.6

- I can identify, describe, and sketch reflections, rotations, and translations.

Review Objectives

- I can add and subtract fractions with common and unlike denominators.
- I can name equivalent fractions, decimals, and percents.

STUDY LINK
10•1

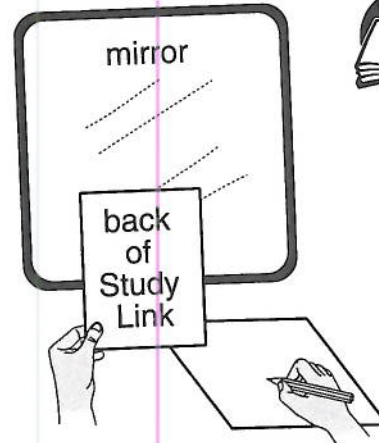
A Reflected Image



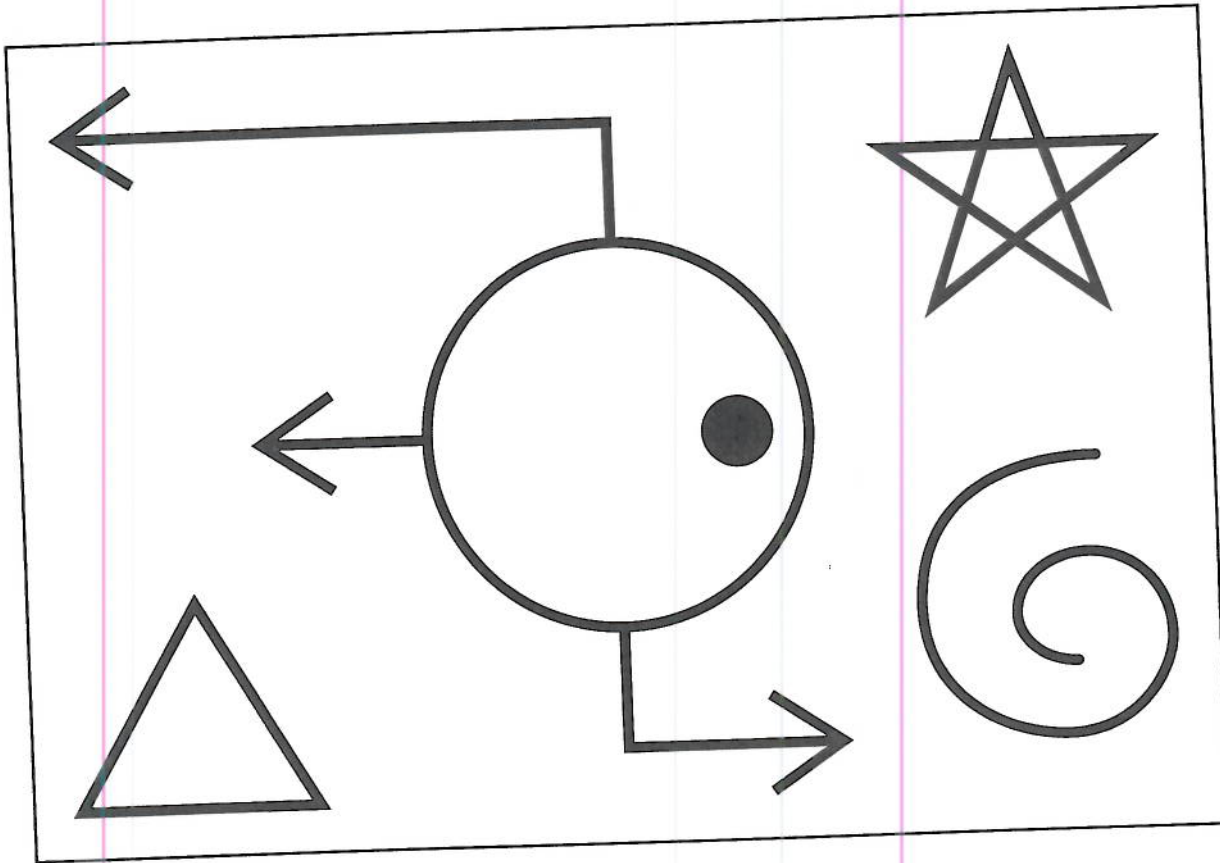
There is a simple design in the box in the middle of this page. It is the **preimage**.

Hold this page in front of a mirror, with the printed side facing the mirror. On a blank piece of paper, sketch what the design looks like in the mirror—the **image**.

Compare your sketch (image) with the design on the Study Link page (preimage). Bring both the preimage and image to school tomorrow.



Sketch the design as it looks in the mirror.


Practice

1. 10% of $130 =$ _____

2. _____ $= 25\%$ of 32

3. _____ $= 15\%$ of 120

4. 70% of $490 =$ _____

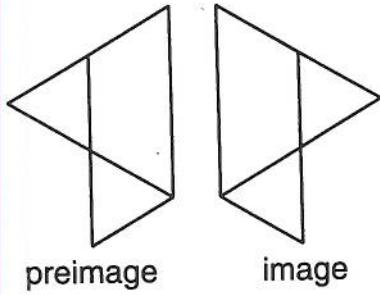
STUDY LINK
10•2

Lines of Reflection

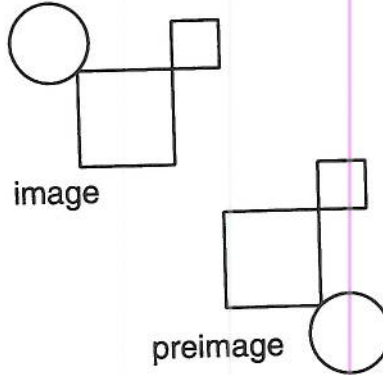


For each preimage and image, draw the line of reflection.

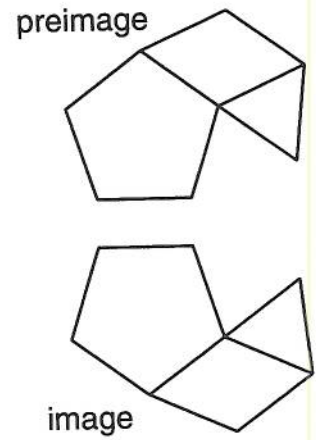
1.



2.

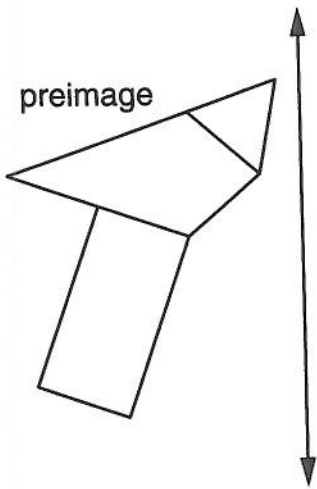


3.

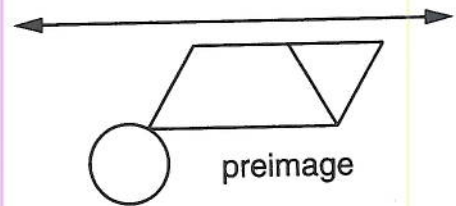


For each preimage, use your Geometry Template to draw the image on the other side of the line of reflection.

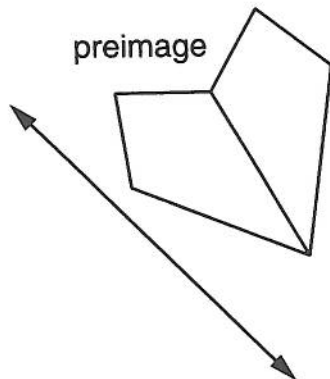
4.



5.



6.



7. Create one of your own.
preimage



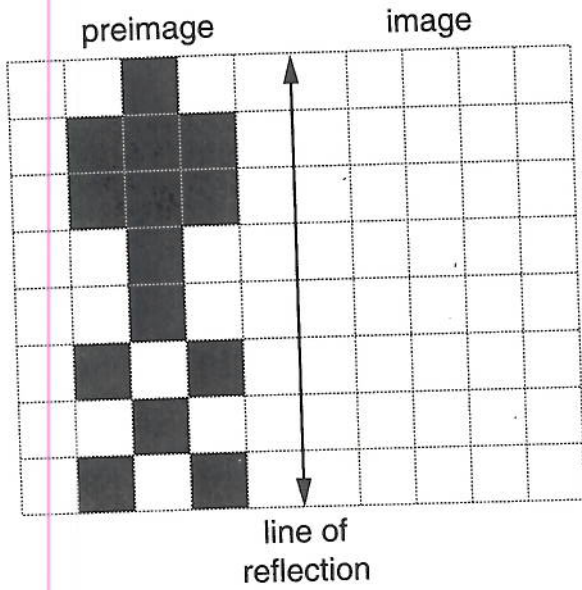
STUDY LINK
10•3

Reflections

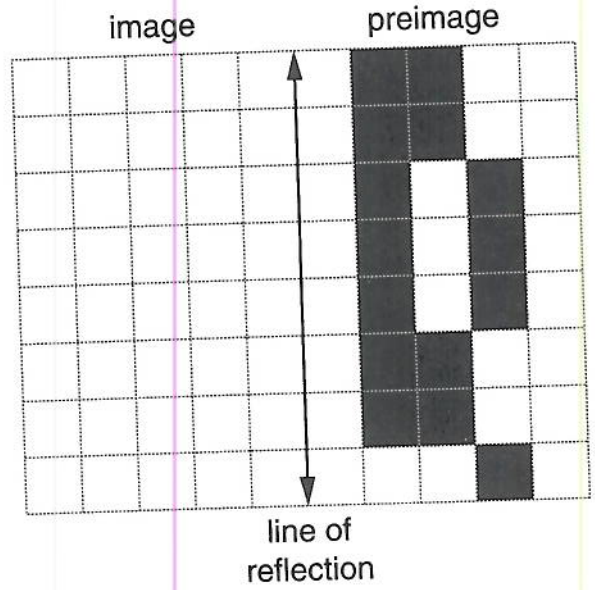


Shade squares to create the reflected image of each preimage.

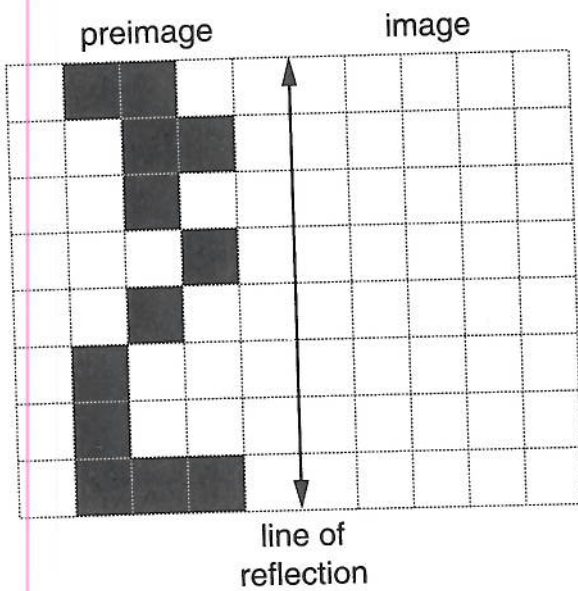
1.



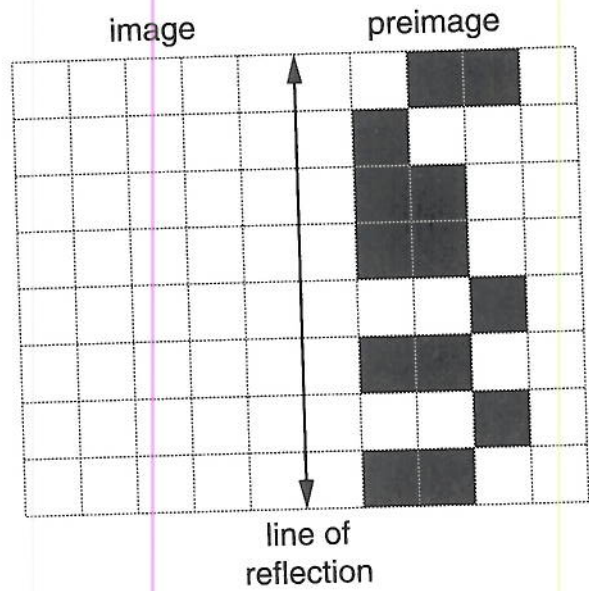
2.



3.



4.



Practice

5. $54 * 6 =$ _____

6. $29 * 36 =$ _____

7. _____ $= 45 * 45$

8. _____ $= 837 * 63$

STUDY LINK
10•4

Line Symmetry in the Alphabet



1. Print the 26 capital letters of the alphabet below.

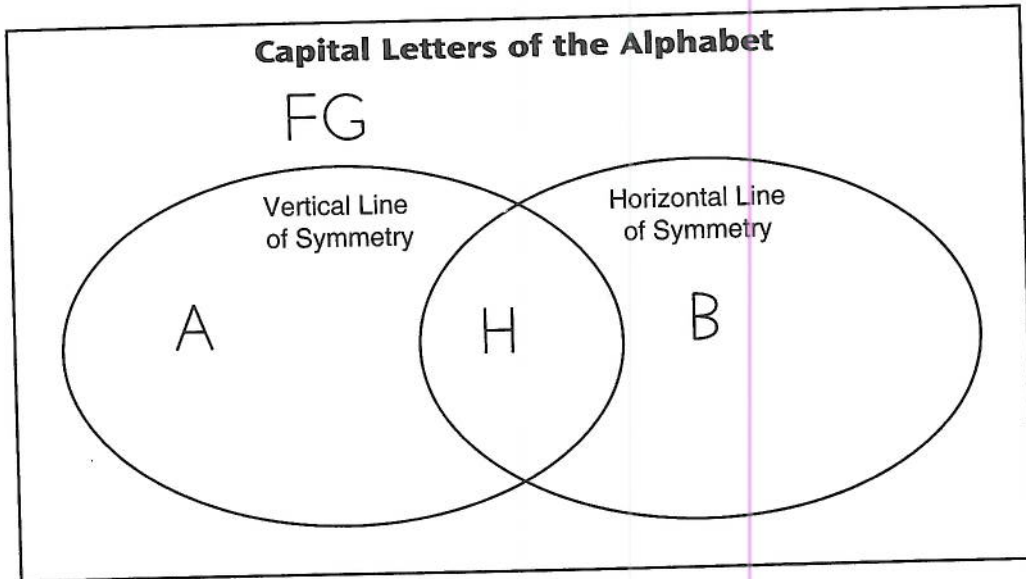
2. The capital letter A has a vertical line of symmetry.



The capital letter B has a horizontal line of symmetry.



Use the letters of the alphabet to complete the Venn diagram.



3. The word BED has a horizontal line of symmetry.



The word HIT has a vertical line of symmetry.



Use capital letters to list words that have horizontal or vertical line symmetry.

horizontal

vertical

Practice

4. $86 \div 9 =$ _____

5. _____ $= 68 / 4$

6. $6 \overline{)742} =$ _____

7. _____ $= 855 / 7$

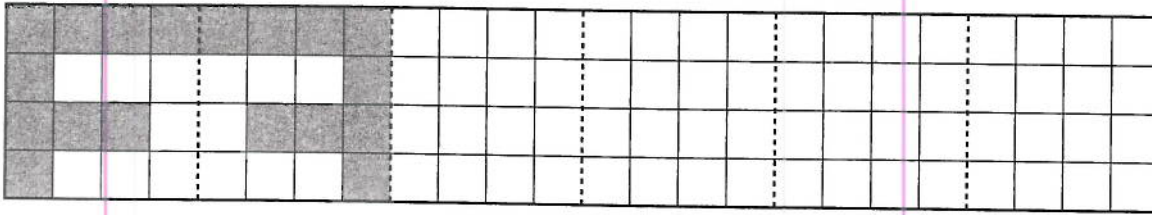
STUDY LINK
10•5

Geometric Patterns

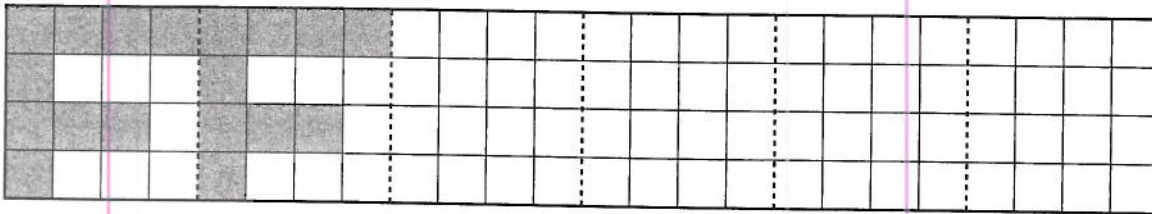


1. Continue each pattern. Then tell if you continued the pattern by using a reflection, rotation, or translation of the original design.

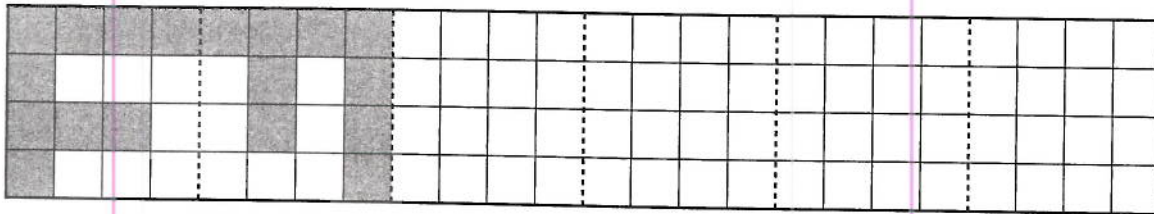
a. _____



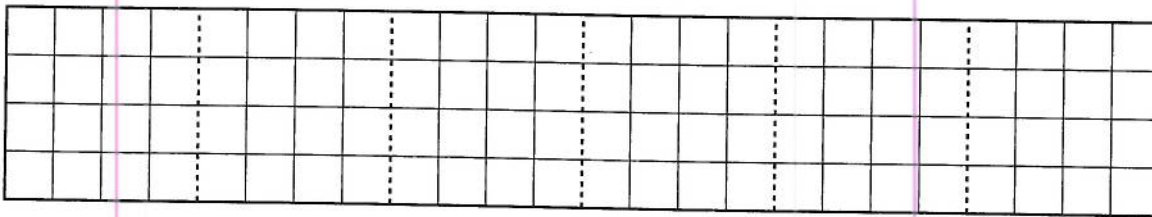
b. _____



c. _____



2. Make up your own pattern.



Practice

3. 50% of \$25.00 = _____

4. 25% of \$10.00 = _____

5. _____ = 40% of \$150.00

6. _____ = 20% of \$250.00

