

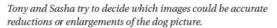
4.3

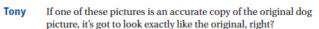
# What Is a Well-Scaled Drawing?

Objective: Students will decide whether two figures are well-scaled copies of each other

### Minds in Action

#### episode 11





Well, we're not necessarily looking for an exact copy of the original. We're just looking for a picture that keeps the same shape, but not necessarily the same size. The original picture may have been enlarged or shrunk down—like on a copy machine.

The first copy is shorter than the original, but it's not smaller all around. It just looks like someone stepped on it. If we're looking for an accurate smaller copy of the original picture, the copy needs to be smaller all around.

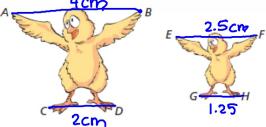
asha I know what you mean. The fourth copy is bigger than the original, but it's not bigger all around. It got bigger, but it's too long.

## **For Discussion**

- Decide which of the four images are accurate enlargements or reductions of the original dog picture.
- 2. What characteristics of the dog images helped you make your decisions?

# **Check Your Understanding**

1. Here are drawings of two baby chicks with points labeled A through H.

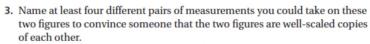


Here are the distances between some of the points.

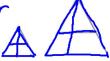
$$AB = 4 \text{ cm}$$
  $CD = 2 \text{ cm}$   $EF = 2.5 \text{ cm}$   $GH = 1.25 \text{ cm}$ 

How can you use these measurements to help convince someone that the two chicks are well-scaled copies of each other? Are there other measurements that could be important to compare?



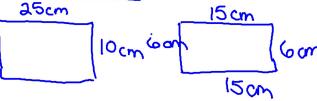


· horizontal bar



7. Standardized Test Prep A rectangle has dimensions 25 cm by 10 cm. It is scaled by the factor  $\frac{3}{5}$ . What is the perimeter of the scaled rectangle?

A. 35 cm B. 42 cm C. 70 cm D. 90 cm 25cm 15 cm



**On Your Own** 

Homework:

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