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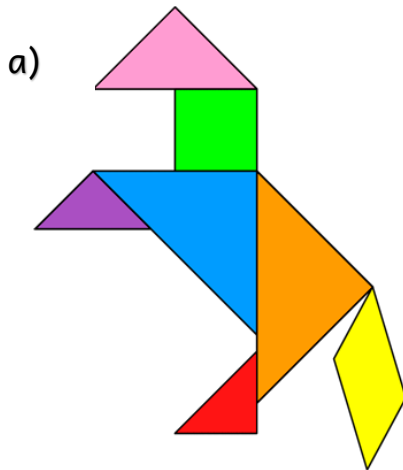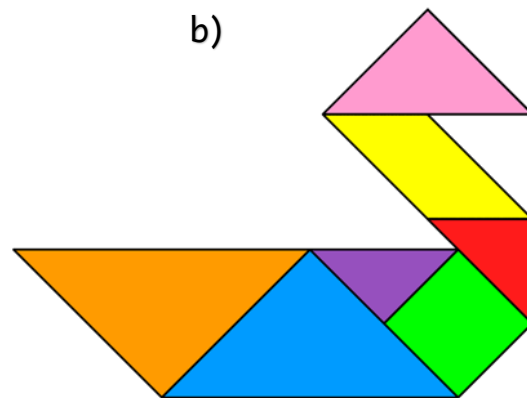# Tangrams (Part 1) – Answer Sheet

1. These images are created using tangrams.
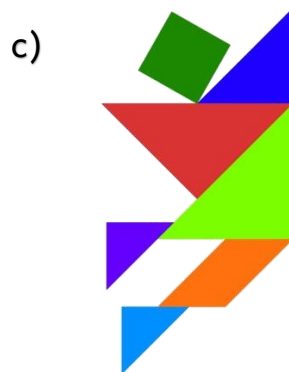
   What is each silhouette representing?

a)

Horse

b)

Duck or Swan
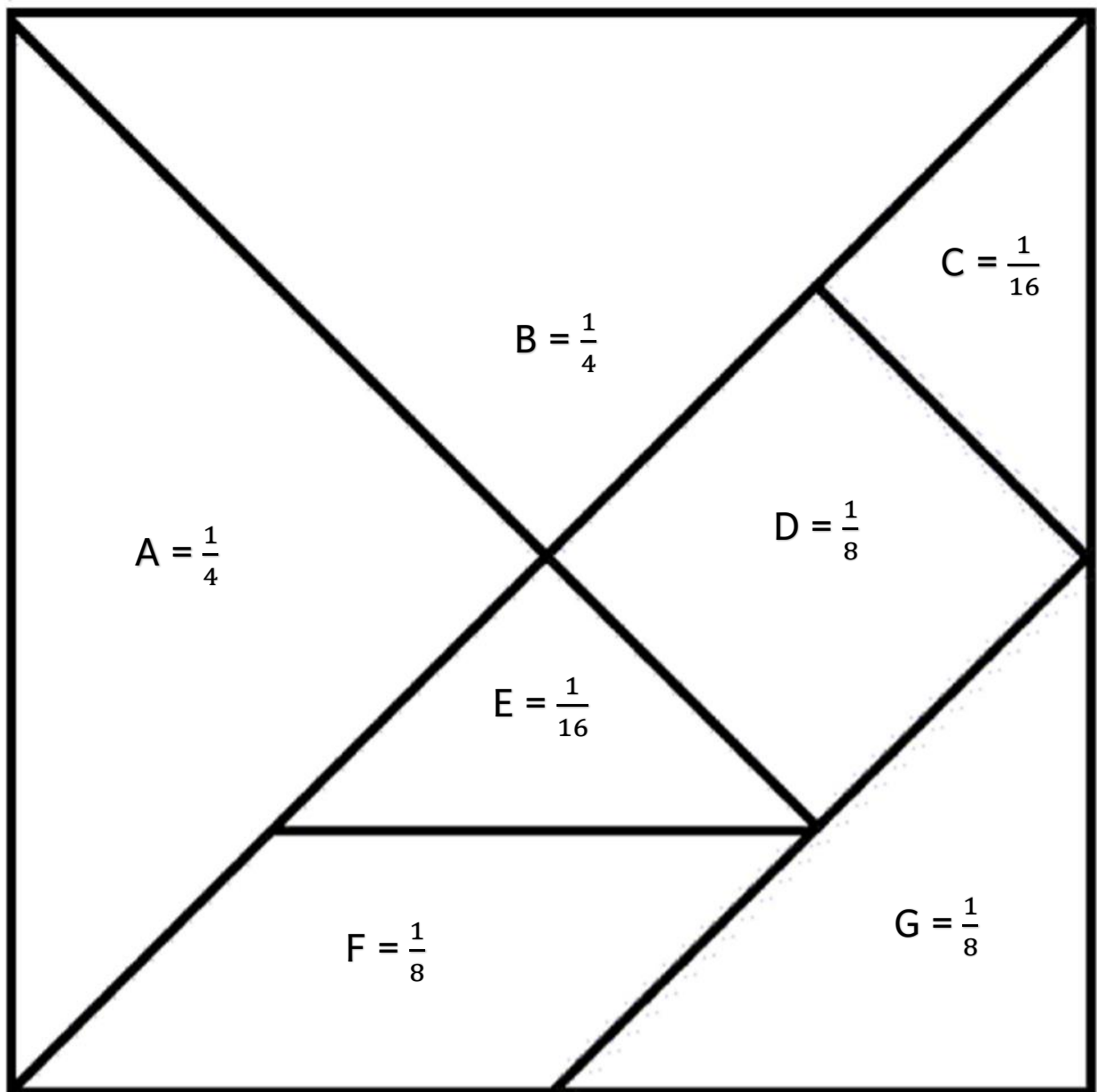
c)

Boy/Girl jumping

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2. Name each shape (A-G) and **calculate what fraction** of the whole puzzle is each piece of shape.

$C = \frac{1}{16}$

$B = \frac{1}{4}$

$A = \frac{1}{4}$

$D = \frac{1}{8}$

$E = \frac{1}{16}$

$F = \frac{1}{8}$

$G = \frac{1}{8}$

Answer:

Tan A and B are two big right-angled triangles. Each one covers $\frac{1}{4}$ **the area** of the whole puzzle.

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Tan C and E are two small right-angled triangles. Each one covers $\frac{1}{16}$ of the whole puzzle.

Note: Tan C and E are $\frac{1}{4}$ (one quarter) of Tan A or B.

Tan D is a small square. It covers **$\frac{1}{8}$** of the whole puzzle.

Tan D is equal to Tan E and C altogether.

Tan F is a parallelogram. It covers $\frac{1}{8}$ of the whole puzzle.

Tan F is equal to Tan D or Tan G.

Tan G is a medium right-angled triangle. It covers $\frac{1}{8}$ of the whole puzzle.

Tan G is $\frac{1}{2}$ (half) the area of Tan A or Tan B but double the area of Tan C or Tan E. Tan G is equal to Tan D and Tan F.