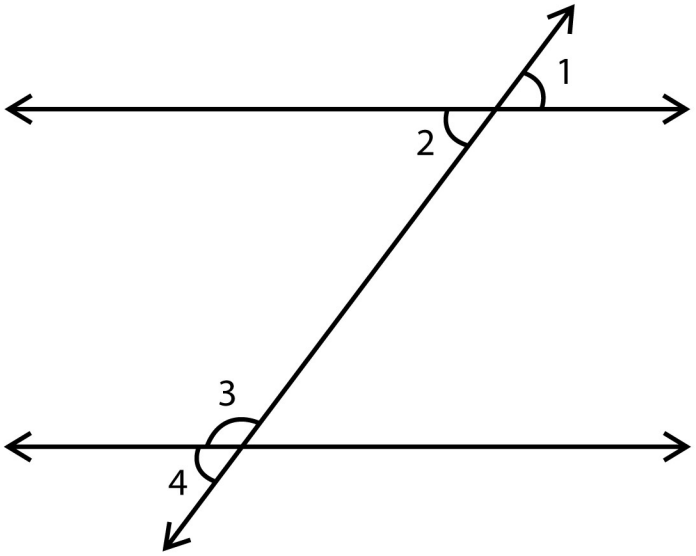
Name: _____

MATH MONKS

Using Parallel Lines and Transversals

Use your knowledge of parallel lines and transversals to solve the following.

A) Use the given figure for 1-2.



1. Find the value of y if:

   $m\angle 1 = 2y + 15°$

   $m\angle 4 = 75°$

   $y =$ _____

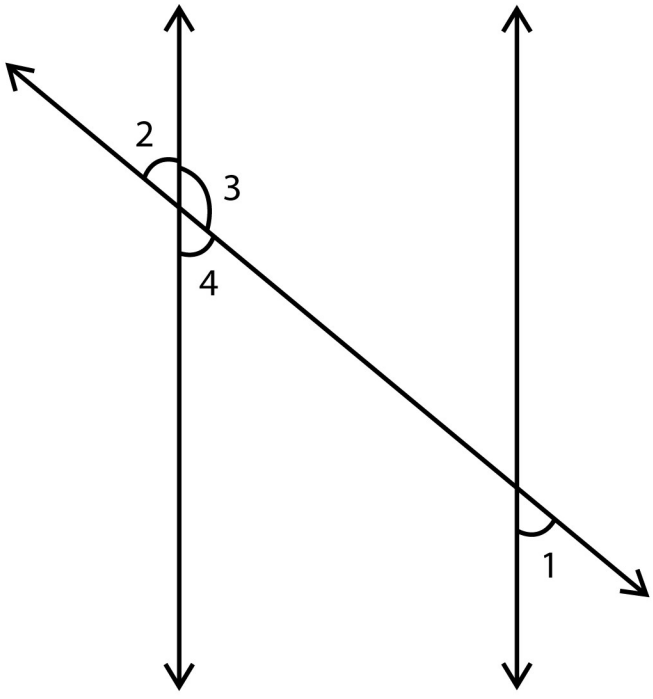
2. Find the value of h if:

   $m\angle 2 = 3h - 35°$

   $m\angle 4 = h + 85°$

   $h =$ _____

B) Use the given figure for 3-5.



3. Find the value of z if :

   $m\angle 1 = z^2 + 45°$

   $m\angle 4 = 55°$

   $z =$ _____

4. Find $m\angle 2$.

   $m\angle 2 =$ _____

5. Find $m\angle 3$.

   $m\angle 3 =$ _____

Name: _____

MATH MONKS

Using Parallel Lines and Transversals

Answers

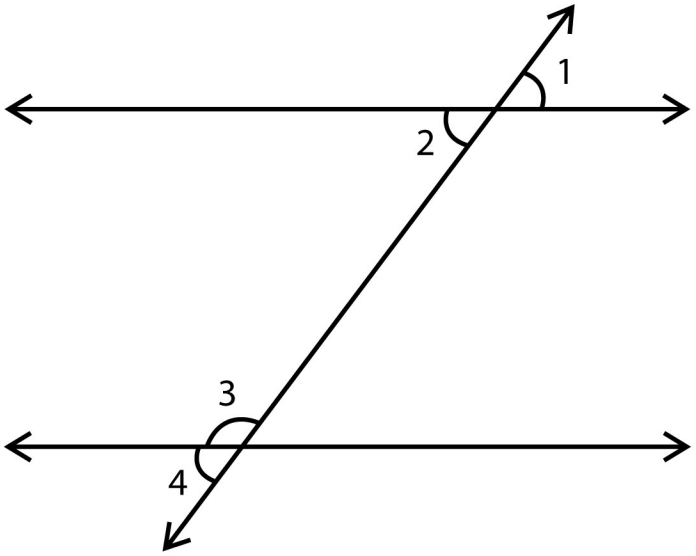
A) Use the given figure for 1-2.

1. Find the value of y if:

$m\angle 1 = 2y + 15°$

$m\angle 4 = 75°$

$y =$ 30°



2. Find the value of h if:

$m\angle 2 = 3h - 35°$

$m\angle 4 = h + 85°$

$h =$ 60°

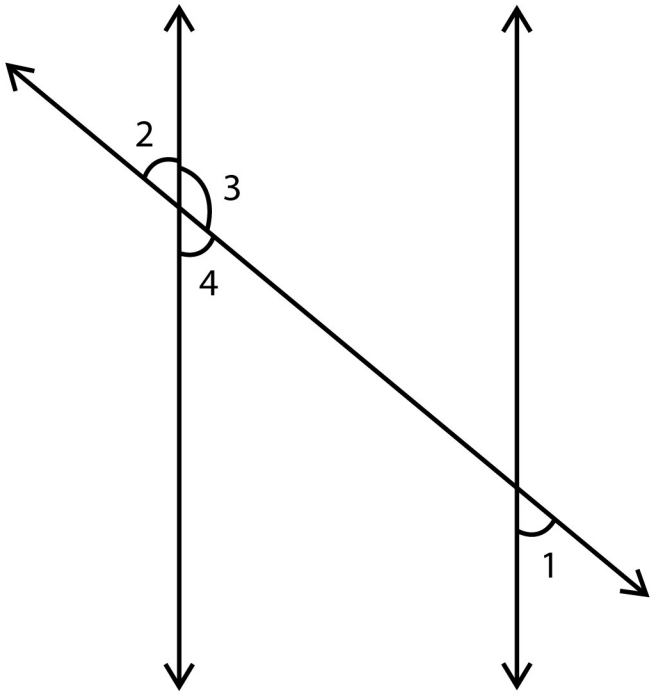
B) Use the given figure for 3-5.

3. Find the value of z if :

$m\angle 1 = z^2 + 45°$

$m\angle 4 = 55°$

$z =$ 10°



4. Find $m\angle 2$.

$m\angle 2 =$ 55°

5. Find $m\angle 3$.

$m\angle 3 =$ 125°