PYTHAGOREAN THEOREM: FIND THE MISSING HYPOTENUSE
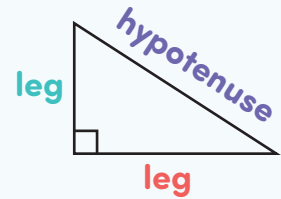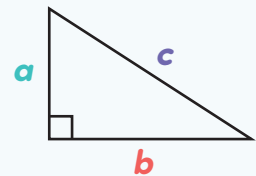
The Pythagorean theorem relates the sides of a right triangle. It states that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the legs.
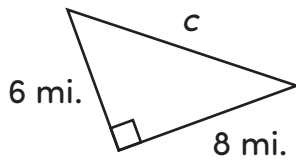
Use the following equation to show the Pythagorean theorem, where a and b represent the legs and c represents the hypotenuse:
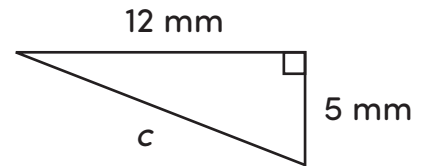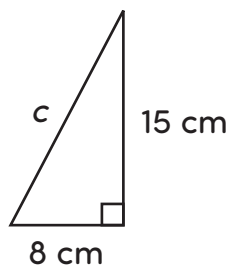
$$a^2 + b^2 = c^2$$

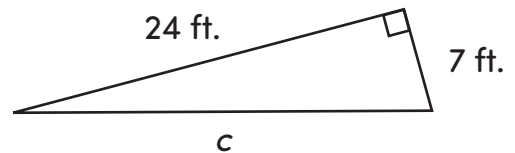**Apply it!** Use the Pythagorean theorem to find the length of each missing hypotenuse.

$c =$ _____

$c =$ _____
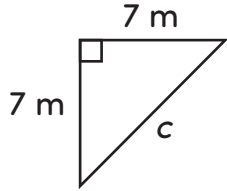
$c =$ _____
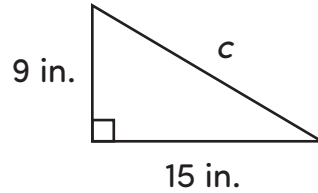
$c =$ _____

PYTHAGOREAN
THEOREM: **FIND THE MISSING HYPOTENUSE**
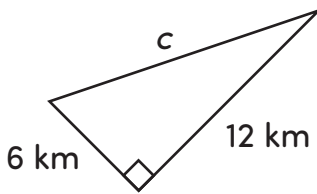
Keep going! Use the Pythagorean theorem to find the length of each missing hypotenuse. Round each answer to the nearest tenth.
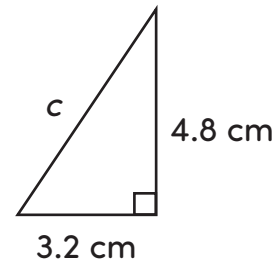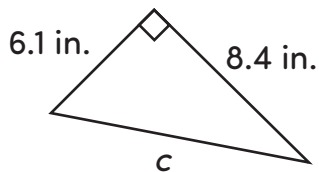
7 m
7 m
c

$c \approx$ _____

9 in.
c
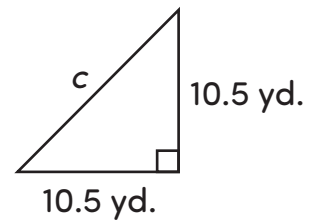15 in.

$c \approx$ _____

c
6 km
12 km

$c \approx$ _____

c
4.8 cm
3.2 cm

$c \approx$ _____

6.1 in.
8.4 in.
c

$c \approx$ _____

c
10.5 yd.
10.5 yd.

$c \approx$ _____