Name: _____   Date: _____
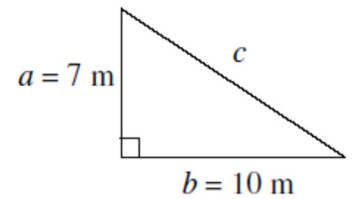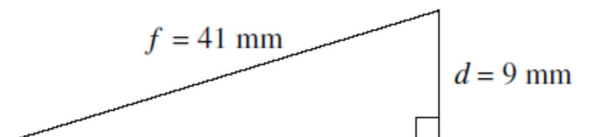
Learning Goal 7.2	I can find missing sides or identify right triangles using the Pythagorean Theorem.

The Pythagorean Theorem

Example Determine the length of the **hypotenuse, c,** of following right triangle. Express your answer to the nearest tenth of a metre.
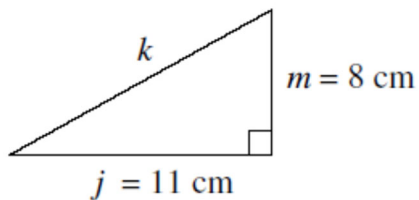

$a = 7$ m
c
$b = 10$ m

Example Determine the length of the **leg, e,** of the right triangle. Express your answer to the nearest millimeter.

$f = 41$ mm
$d = 9$ mm
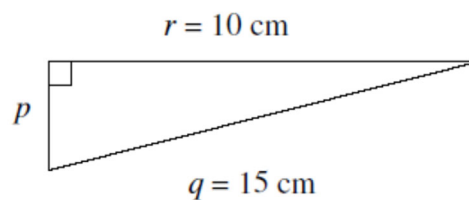
Assignment   p. 104 #3 – 8, 10, 11, 13, 14   Quiz Next Day!

Example Find the missing side length to the nearest tenth.

a.

k

$m = 8$ cm

$j = 11$ cm

b.

$r = 10$ cm

p

$q = 15$ cm

Example Jeremy's brand-new big screen TV measures 40" by 25". What is the length of the diagonal of the TV? Express your answer to the nearest tenth of an inch.

Assignment   p. 104 #3 – 8, 10, 11, 13, 14   Quiz Next Day!