🔍 Let's Investigate

Step 1: Write down a three-digit number in which two of the digits are the same.

717

Step 2: Add together all the digits in the three-digit number.

$7 + 1 + 7 = 15$

Step 3: Write down all the possible two-digit numbers you can make using each of the digits in the three-digit number. (There should be three different two-digit numbers.)

71, 17, 77

Step 4: Add together the three two-digit numbers.

$71 + 17 + 77 = 165$

Step 5: Divide the answer to Step 4 by the answer to Step 2.

$165 \div 15 = ?$

Repeat the steps above several times, starting with a different three-digit number each time. (Make sure that two of the digits are the same.)

What do you notice?

❓ What's the Problem?

A knight is in command of a troop of men and horses.

Altogether there are 60 heads and 160 legs.

How many horses does the knight have under his command?