

**1. Solve the equations using auxiliary drawings:**

$7x - 231 = 14$

$417 - 5x = 202$

$3x + 117 = 270$

$840 : x = 42$

$15 \cdot x = 75$

$240 : (x + 2) = 30$

**2. Division with a remainder**

$76 : 9$

$231 : 15$

$622 : 9$

**3. Divisibility traits:**

- a number is divisible by 2 if it ends in an even digit
- a number is divisible by 5 if it ends in 0 or 5
- a number is divisible by 3 if the total of its digits is divisible by 3
- a number is divisible by 9 if the total of its digits is divisible by 9
- a number is divisible by 11 if the total of its digits in the odd places equals the total of its digits in the even places

***Is the number ... divisible by ...?***

	198	4500	1683	2015	2019	1989	1625
2							
3							
5							
9							
11							

**4.** Claus has \$2. How many 27 cent chocolate bars can he buy?

**5.** A plastic bag may hold 15 cans of yogurt without tearing. How many plastic bags are needed to carry 72 cans of yogurt?

6. A farmer needs to apply 20 g of fertilizer per square yard of vegetable bed. He has 280 square yards of egg plants and 190 square yards of cucumbers. He buys fertilizer in 1 kg packages.

a) How many packages does he need for one application?

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b) How much fertilizer will remain after?

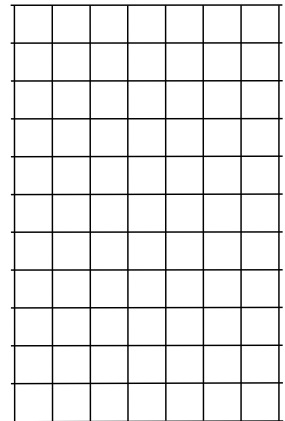
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**Additional Problems:**

How many multiples of 5 are between the numbers 1 and 2087?

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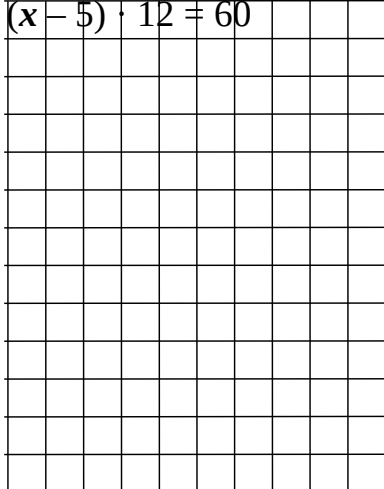


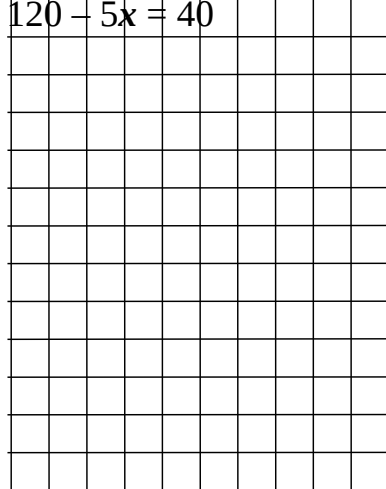
How many multiples of 5 are between the numbers 11 and 2087?

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Solve the equations:

$$(x - 5) \cdot 12 = 60$$


$$120 - 5x = 40$$


**Circle:** a set of points located on the same distance from its center.

1. Plot  $w = \text{Circ}(A, 4 \text{ cm})$

2. Plot  $g = \text{Circ}(B, 6 \text{ cm})$

3. Find  $\{C, D\} = w \cap g$

4. Plot  $CD$

5. Find  $H = AB \cap CD$

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**A**

•  
**B**