

1. Complete the number patterns:

____, _____, 15, 21, 27

____, _____, 16, 32, 64

5, 10, 17, 22, 29, 34, _____, _____

2. Use distributive property of multiplication:

$$2(x + 7) = \underline{\hspace{10cm}}$$

$$(x + 7) \times 2 = \underline{\hspace{10cm}}$$

$$31 \times 29 = \underline{\hspace{10cm}}$$

$$11 \times 11 = \underline{\hspace{10cm}}$$

3. Draw a four-sided polygon that has right angles at the 2 bottom corners, an angle less than 90° at the upper left corner, and an angle greater than 90° in the upper right corner.

4. Compare expressions using $<$, $>$, $=$

$$5 \times 6 - 5 \quad \underline{\hspace{1cm}} \quad 5 \times 5 + 5$$

$$7 \times 6 + 7 \quad \underline{\hspace{1cm}} \quad 6 \times 7 + 6$$

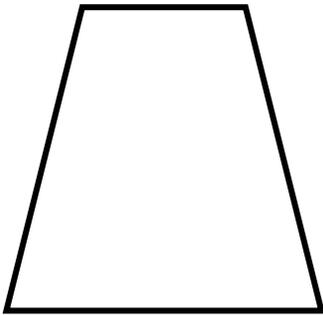
$$48 + 20 \quad \underline{\hspace{1cm}} \quad 4 \times 5 + 50$$

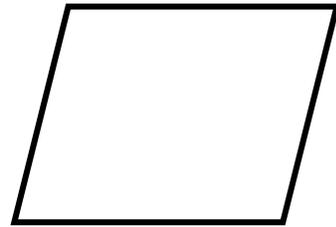
$$24 + 32 \quad \underline{\hspace{1cm}} \quad (32 - 24) \times 7$$

Homework 10

5. While helping their mother to unload a dishwasher, Victoria put 5 plates on each of 3 shelves of the kitchen cabinet and Julia put 4 plates on the each of 3 shelves. How many plates did both of them put in the kitchen cabinet?

6. Use a protractor to measure in degrees each of the angles in the shapes below:





7. Write down the expressions and find their values:

- a) multiply the sum of 31 and 322 by 2 _____
- b) multiply the difference between 205 and 190 by 4 _____

8. Solve for x :

$$(630 - x) + 210 = 500$$

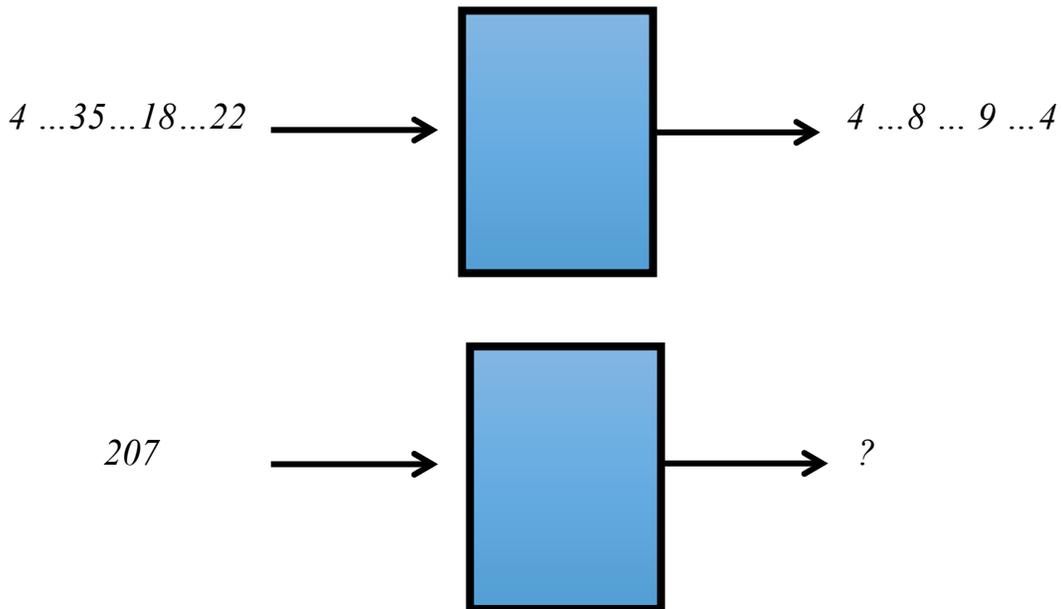
$$(x + 190) - 370 = 330$$

Homework 10

9. Jonathan's mother wants to repaint one wall in his room. The wall is 10 feet long, the ceiling of the room is 8 feet high. There is a one window in the wall, which is 3 foot wide and 5 foot high. What is the area in square feet of the part of the wall that she wants to paint? Draw a picture of the wall with a window to help you with calculations.

10*

A "black box" (functional machine) takes numbers in and outputs the results. The figure below shows a set of numbers entering the machine and the results, which are coming out of machine. If the machine is given the number 207, what will be an output?



11.

Homework 10

Perimeter of a square is 16 cm. New shapes were formed using 4 such squares. Every two squares might have a common side. Draw different shapes with $P_1 = 32$ and $P_2 = 40$. How many different shapes with perimeter equal 40 cm did you find?

