

1. Some planet in some star system in some galaxy far far away has a beautiful orange moon. The period from one full moon to the next one is 28 days. If a full moon falls on the 13<sup>th</sup> day of some month, how many days will pass before full moon again falls on the 13<sup>th</sup> if each month is exactly 30 days?

**Review of negative number operations.**

2. Calculate:

$2 + 1 =$

$2 + (-1) =$

$2 - 1 =$

$2 - (-1) =$

$-2 + 1 =$

$-2 + (-1) =$

$-2 - 1 =$

$-2 - (-1) =$

$14 - (-7) =$

$14 + (-7) =$

$7 + 14 =$

$7 + (-14) =$

3. In a small airport there were some planes parked before the storm. When the storm hit the area 15 more airplanes have been grounded to this airport. The number of airplanes in the airport during the storm was 4 times more than the number before the storm hit the area. How many airplanes were on the airport grounds before the storm?

4. Analyze problem #7 from HW #4 (200 pieces of paper).

5. Remove parenthesis:

$3(2x + 4) = \underline{\hspace{2cm}}$

$(2x - 4) \cdot 5 = \underline{\hspace{2cm}}$

$(2x + 4) \cdot 3 = \underline{\hspace{2cm}}$

$(8 - 3x) \cdot 2 = \underline{\hspace{2cm}}$

$7(3w + y) = \underline{\hspace{2cm}}$

$(6x + 3t) \cdot 11 = \underline{\hspace{2cm}}$

$4 \cdot (2x + 3y - 2) = \underline{\hspace{2cm}}$

$(5x - 2y + 1) \cdot 2 = \underline{\hspace{2cm}}$

$4 \cdot (2x + 3y - 2 - a) = \underline{\hspace{2cm}}$

$4(18 - 5w + 3x) = \underline{\hspace{2cm}}$

6. Solve equations using appropriate diagrams and/or replacements:

$z : 7 = 35$

$z - 7 = 35$

$35 : z = 7$

$35 - z = 7$

$31 - 36 : x = 22$

$254 - 11x = 122$

$(65 - x) : 4 = 12$