

# Pre-Algebra

## HW 1

(1) Order from smallest to largest:

1.  $-5, 2$
2.  $-20, -21, 4$
3.  $6, 10, -200, 0$

(2) Draw a number line to represent the following, and find the answer:

1.  $0 + -5$
2.  $-2 + -3$
3.  $-2 \times -4$

(3) Solve:

$$x = -3 + -5 \qquad y = 5 + -3 \qquad z = 3 + -5$$

$$n = -3 + 2 - 6 \qquad n = -7 + 5 + -9 + 0$$

$$q = -3 \times 5 \qquad r = 3 \times 5 \qquad s = -3 \times -5$$

$$x = 3 + 2 \times 4 \qquad y = (3 + 2) \times 4$$

(4) Solve:

A plane carrying a sky-diver takes off from sea-level. It flies 100 m up, then dives 12 m, then climbs 25 m.

- Draw a number line to describe the airplane flight.
- How high above sea level is the airplane?
- If the sky-diver falls 40 m and then opens a parachute, how high above sea-level is he?
- If the sky-diver sinks 25 m into the ocean, how far is the distance between the sky-diver and the airplane?