Math $8 \rightarrow Unit 8$

8.5 Applying Integer Operations



Jessie, Landon and Christian were discussing the following problem.

A submersible dives from the surface at 15 m/min for 6 minutes and then at 25m/min for 20 minutes. What is the depth of the submersible after the dive?

They worked together to write the following expression to solve the problem: $6 \times (-15) + 20 \times (-25)$

They each got a different answer.

Jessie got +1750

Landon got -590

Christian got -750

Who's right?

$$6 \times (-15) + 20 \times (-25)$$

= $-90 + (-500)$
= -590

Landon got it vight!

a)
$$(-15) \div (-3) = (+4) \times (-2)^2$$

= $+5 - 4 \times 4$
= $5 - 6$
= -16

b)
$$(-6)$$
 = (-10) + (-14) + (-2) -6 - (-24) + (2) -6 + (2) = (6)

One week in March in Peguis, Manitoba, the daily high temperatures were -2°C, -6° C, $+1^{\circ}$ C, $+2^{\circ}$ C, -5° C, -8° C and $+4^{\circ}$ C. What was the mean daily high temperature?

$$(-2)+(-6)+1+2+(-5)+(-8)$$