

8-7. Mark's scores on his first nine assignments were: 10, 10, 9, 9, 10, 8, 9, 10, and 8. (Calculator is Okay on this Problem)

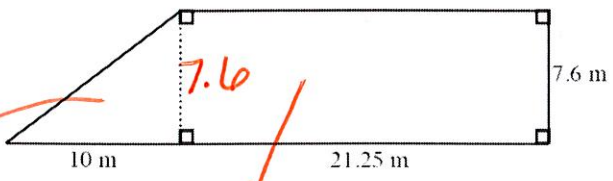
a) What are the median and range of his scores? *The median is 9. The range is 2.*

b) What is his mean (average) score so far? (It's okay to use a calculator if you need to) *Sum = 83 ÷ 9 = 9.2 is the mean.*

c) Mark did not do the tenth assignment, so he got a zero on it. Zero is an outlier for these assignments. What is his new mean? *Sum = 83 ÷ 10 = 8.3 is the new mean.*

110
110-A+
15-A
14-B+
13-B-
12-C
11-O+
10-D
9-F
↓

8-23. Find the area of the shape below. Show your steps.



$A = \frac{1}{2}bh$
 $A = \frac{1}{2} \times 10 \times 7.6$
 $A = 5 \times 7.6$
 $A = 38 + 1$

$A = bh$
 $A = 21.25 \times 7.6$
 $A = 161.5$
 $+ 1$

161.5
 $+ 38.0$

 199.5

The total area is 199.5m² +1

8-22. Use <, >, or = to compare the number pairs below

- a) $0.183 > 0.180$
- b) $-13 > -17$
- c) $0.125 = \frac{1}{8}$
- d) $-6 < -4$
- e) $72\% < \frac{35}{30}$ *Greater than 100%*
- f) $-0.25 < -0.05$

+4

7-118. Each April, wildflowers are commonly seen throughout Texas. The number of acres of wildflowers in this year could be estimated by the inequality $a - 30 \geq 110$. The variable a represents the number of acres of wildflowers.

- a) Use inverse operations to find a solution to the inequality. *110 + 30 = 140*
 $a \geq 140$ +1
- b) What is the boundary point? What does it look like, why? *The boundary point is a colored (filled) circle on 140 because of the ≥ symbol.*



7-123. ELEVATOR CHALLENGE: Juan got on an elevator at the middle floor of a building, went up 4 floors, down 3 floors, up 1 floor, and down 9 floors, where he left the elevator on the ground floor.

- a) How many floors are in the building? *There are 15 floors.* +2
- b) Explain how you found the number of floors. *Work backwards: 1 + 9 - 1 + 3 - 4 = Middle; 10 - 1 + 3 - 4 = Middle (8); 9 + 3 - 4 = 8; 12 - 4 = 8*
- If the 8th floor is the middle, there are 7 below and 7 above which totals 15 floors.*

BONUS