1. If n= 4, what does (3n-2)(5-n) equal? Show your work.

2pts

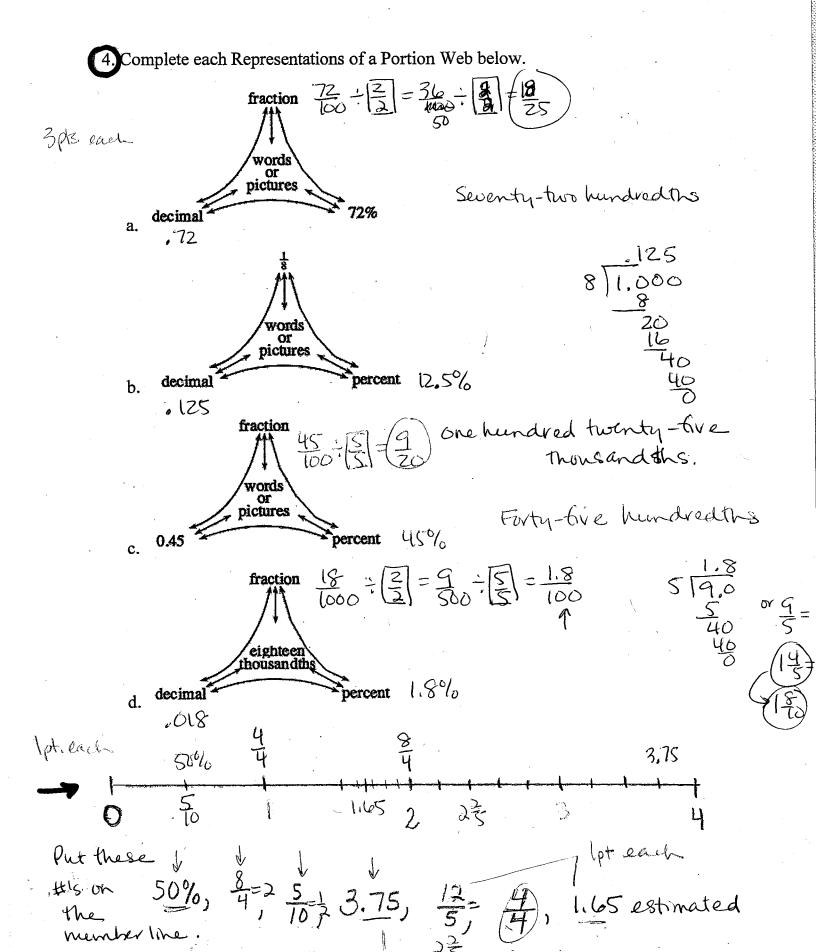
The photos for the sports section of the newspaper have arrived! Each photo measures 2 by 3 inches and Samuel needs to lay out a page that requires him to enlarge and reduce them in several ways. Explain which number(s) from the list below Samuel should multiply each side length by to get each of the desired results. Explain your reasoning in each case.

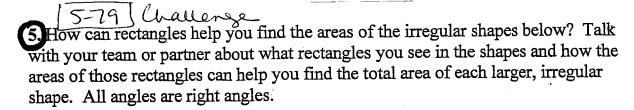
pt each

- 10 = 33 much bisser thank To make the photo much larger.
- 8 -> slightly bigger than 1 To make the photo slightly larger.
- To make the photo much smaller.
- To make the photo slightly smaller. $\frac{8}{9}$ close to 1
- To keep the photo the same size.

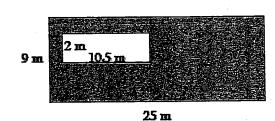
Multiply the following. Show your work.

b.
$$4(2\%)$$
 $4 \cdot 24$ $|4 \times 9| = 9 = 9$





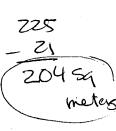
Find the shaded area.



18 m

Davic Area = LXW Difference

Light Area = LKW $\frac{21}{A}$ = 10.5 x2 $\frac{204 \text{ Sq}}{\text{meters}}$



Upto 7-2-5 6 m 7 m b.

A=LXW let+ 7x3=42 3m top 18x 10= 1800 ticky =15 18-3

180

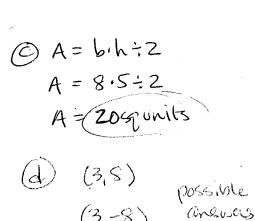
6 Additional Challenge: On graph paper, graph $\triangle ABC$ if A is at (-2, -3), B is at (-2, -3) $\overline{5}$), and C is at (3, 0).

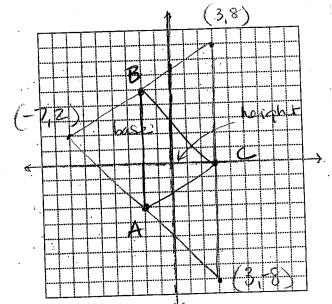
3.8t

3015

- a. What is the length of the base of $\triangle ABC$? Label side AB with its length in grid Sunits units.
- b. What is the height of $\triangle ABC$? Draw this length on your graph and label it. Such
- c. What is the area of $\triangle ABC$? Show how you got your answer.

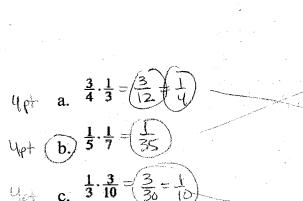
d. If you formed a parallelogram with the triangle on your graph using a copy of $\triangle ABC$, where would the fourth vertex be? Is there more than one possible answer?



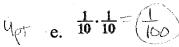


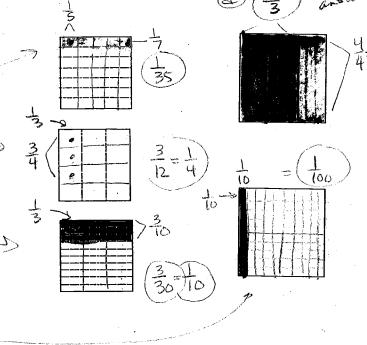
| Name | | Perio | d |
|---------|--|-------|----------|
| INAIIIC | | | <u> </u> |

5-3. For each product below, choose the diagram below that might be useful. Complete it to find the product.

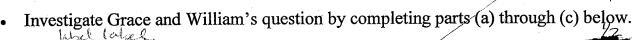


$$\frac{4}{4} \cdot \frac{2}{3} = \frac{8}{12} \cdot \frac{1}{12} = \frac{2}{3}$$

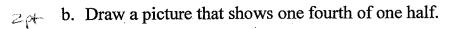




5-11. Grace and William were wondering if one half of a quarter would be the same as one quarter of a half. "But half of something is 50% and a quarter is the same as 25%, so if that's true, then 25% of 50% should be the same as 50% of 25%. Something seems wrong with that to me," Grace said.

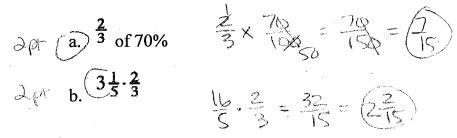


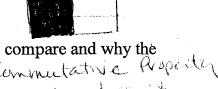
a. Draw a picture that shows one half of one fourth. Zpt



- c. Write a note to Grace and William explaining how these two values compare and why the result makes sense. The pictures are the same. Commutative Property
 Showing to

 5-22. Additional Challenge: Calculate each of the following parts of parts.





+ and X