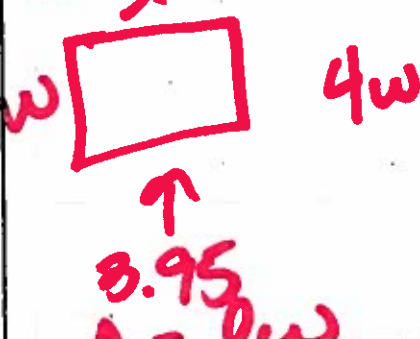
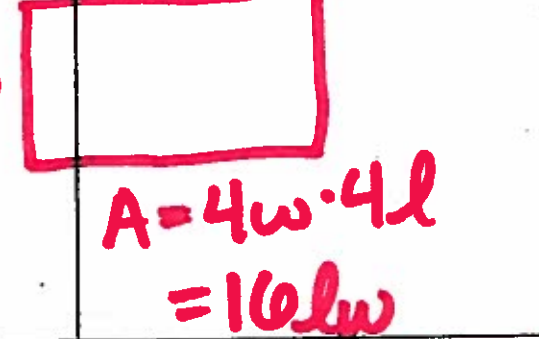


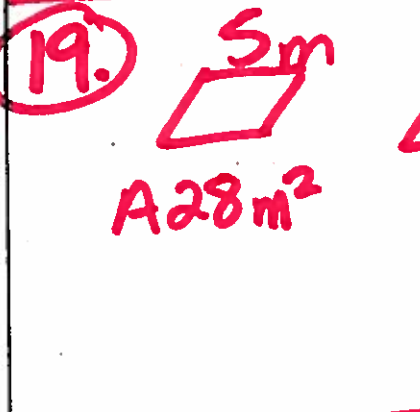
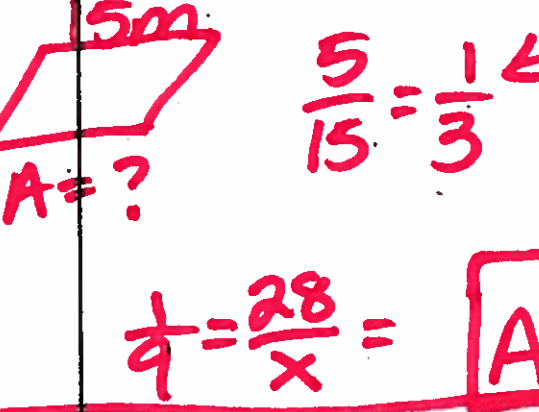
~~18~~ **18**

$A = lw$
 $A = 4w \cdot 4l$
 $= 16lw$

16 times the size so
 $16(3.95)$
 $= \boxed{63.20}$

19

$A = 28m^2$
 $A = ?$

$\frac{5}{15} = \frac{1}{3}$ ← scale factor
 $\frac{1^2}{3^2} = \frac{1}{9}$ ← Area Ratio

$\frac{1}{9} = \frac{28}{x} = \boxed{A = 252m^2}$

20

3:1 scale
 9:1 ← Area Ratio

$\frac{9}{1} = \frac{2.7}{A}$ $\frac{9A}{9} = \frac{2.7}{9}$

$\boxed{A = .3cm^2}$

21

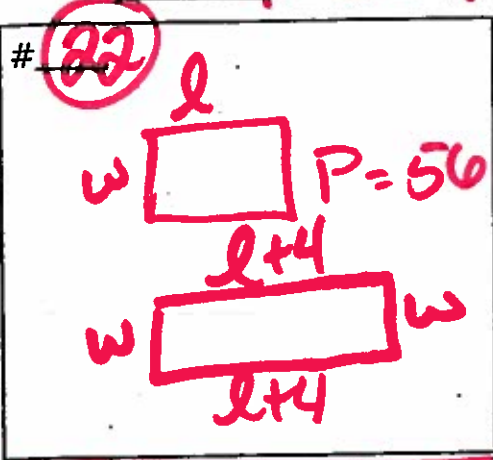
$\frac{2.5in}{11.5ft}$ Scale Factor → Area Ratio

$5.5in \times 11in = 60.5in^2$

$\frac{6.25}{132.25} = \frac{60.5}{A}$

$8001.125 = 6.25A$
 $1280.18 = A$

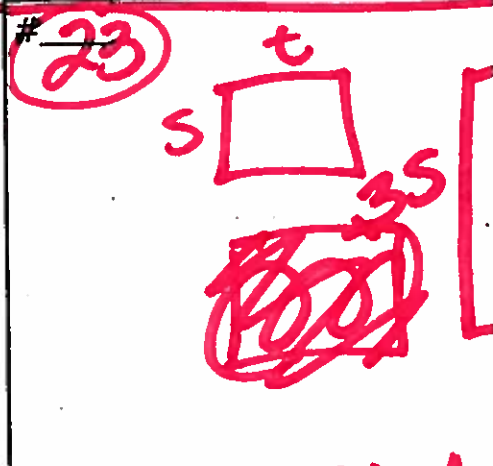
$\boxed{1280.18 ft^2}$



$P = 56 \text{ ft}$ $P = 2w + 2l$

$P = 2w + 2l + 8 = 56 + 8$

$= 64 \text{ ft}$



t

old $P = 2s + 2t$

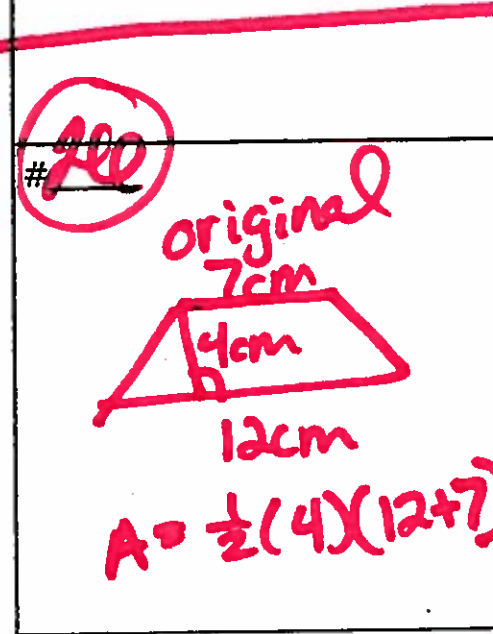
New $P = 6s + 2t$

Perimeter Change: increase $4s$

old Area = st

New Area = $3st$

New Area is 3 times the old



New

$A = \frac{1}{2}(4)(12+7) = 38$

New

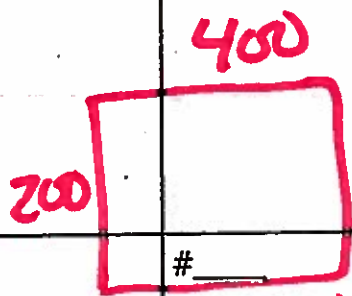
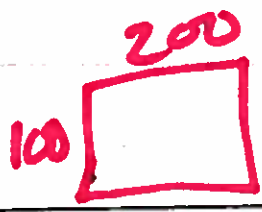
$A = \frac{1}{2}(4)(3.5+6)$

$A = 19$

New Area = $\frac{1}{2}$ old Area

(29)

200 → 395 students Nearly double the kids



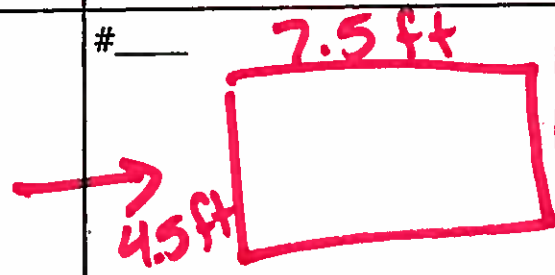
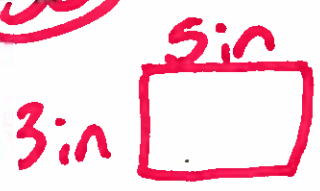
New Playground
4 times the size

$A = 20,000$

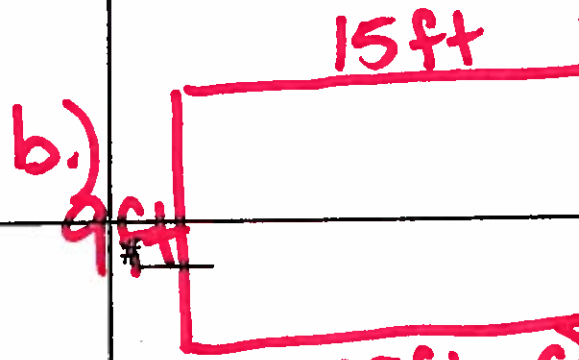
$80,000$

New Playground
4 times as large
Plenty of room since
only double the kids

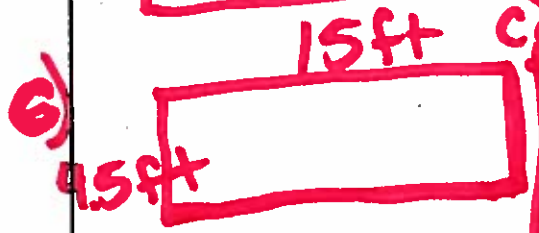
(30)



a) $P = 24 \text{ ft}$
 $A = 33.75 \text{ ft}^2$



b) $P = 48 \text{ ft}$ Doubled
 $A = 135 \text{ ft}^2$ Area
times 4



c) $P = 39 \text{ ft}$ increase of
15 ft
 $A = 67.5 \text{ ft}^2$ Area
would be
doubled