

Area's

AVIIS

Adventure

Little Boy Area was walking around his neighborhood and saw...

His neighbor putting up a fence with the dimensions 50x30 feet.



His mom planting in her 13x7 garden.



An old man planting grass for his
48x29 foot yard.



Small children swimming in a 20x15
foot pool.



A construction man putting shingles on
a triangular 25x12 roof.



His sister jumping on their trampoline that is 12 feet across.



His Dad backing out of their 50x13
foot driveway.



Area remembered from his math class
how to find the area and perimeter to
all of these neighborhood items...

$$A = \text{base} \times \text{height}$$

$$P = \text{sum of sides}$$

$$A = \pi r^2$$

$$A = \frac{1}{2}(\text{base})(\text{height})$$

The perimeter of his neighbor's fence is the sum of all the sides
 $50+50+30+30=160$ feet.

The perimeter of the pool the kids were swimming in would be
 $20+20+15+15=70$ feet.

The area of his mom's garden would be base times height. $13 \times 7 = 91$ square feet.

The area of his driveway is $50 \times 13 = 650$ square feet.

The area of the old man's yard is $48 \times 29 = 1392$ square feet.

The area of the triangular roof is base times height (altitude) times $\frac{1}{2}$
 $25 \times 12 \times \frac{1}{2} = 150$ square feet

The area of the trampoline is pi times radius squared, so if the diameter is 12 then the radius is 6. 6 squared times pi equals 36π square feet.

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