



35



31

How many ways are there to score points in a football game?

Touchdown = 6 pts
fieldgoal = 3 pts
Safety = 2 pts
extra point = 1 pt
2 pt conversion = 2 pts



What is one possible way that
Michigan Scored 35 points?



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5 touchdowns + 5 extra points

$$5(6) + 5(1)$$

$$30 + 5 = 35$$

What is one possible way that
Notre Dame Scored 31 points?



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4 touchdowns + 4 extra points + 1 field goal

$$4(6) + 4(1) + 1(3)$$

$$24 + 4 + 3 = 31$$



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31

↗
5 touch down
2 field goals
4 extra points

11 field goals
+
Safety

5 touchdowns
1 field goal
1 safety

5 touchdowns + 1 Extra point
14 Safeties and a field goal
4 tds + 4 extra pts + 1 fg

Class System

Touchdown= td

Field Goal= fg

Extra Point= pat

Safety =

Touchback= sy

Two-Point Conversion= tpc

$$3\underline{td} + 1\underline{tpc} + 2\underline{fg}$$

Different Point Systems

Variables and Expressions

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A Variable is a symbol (often a letter) that represents a numerical value.

$$td = 6$$

An Expression is a combination of variables, operations and numbers.

$$2td + 1pat + 2fy$$

simplify

An equation is an expression that is set equal to something.

$$2td + 1pat + 2fy = 19$$

the product of 8 and a number

twenty-four less than a number

4 times a number minus 5

the sum of ten and three times a number

the product of seven and x

three more than a number

six less than 8 times a number

a number divided by - 6

$$8 \cdot z$$

$$4 - 24$$

$$4p - 5$$

1. operation
2. Figure out variable
3. Find the #'s involved
4. put it all together

$$4b-7$$

$$b=3$$

$$6-x^2$$

$$x=2$$

$$a(7-b)$$

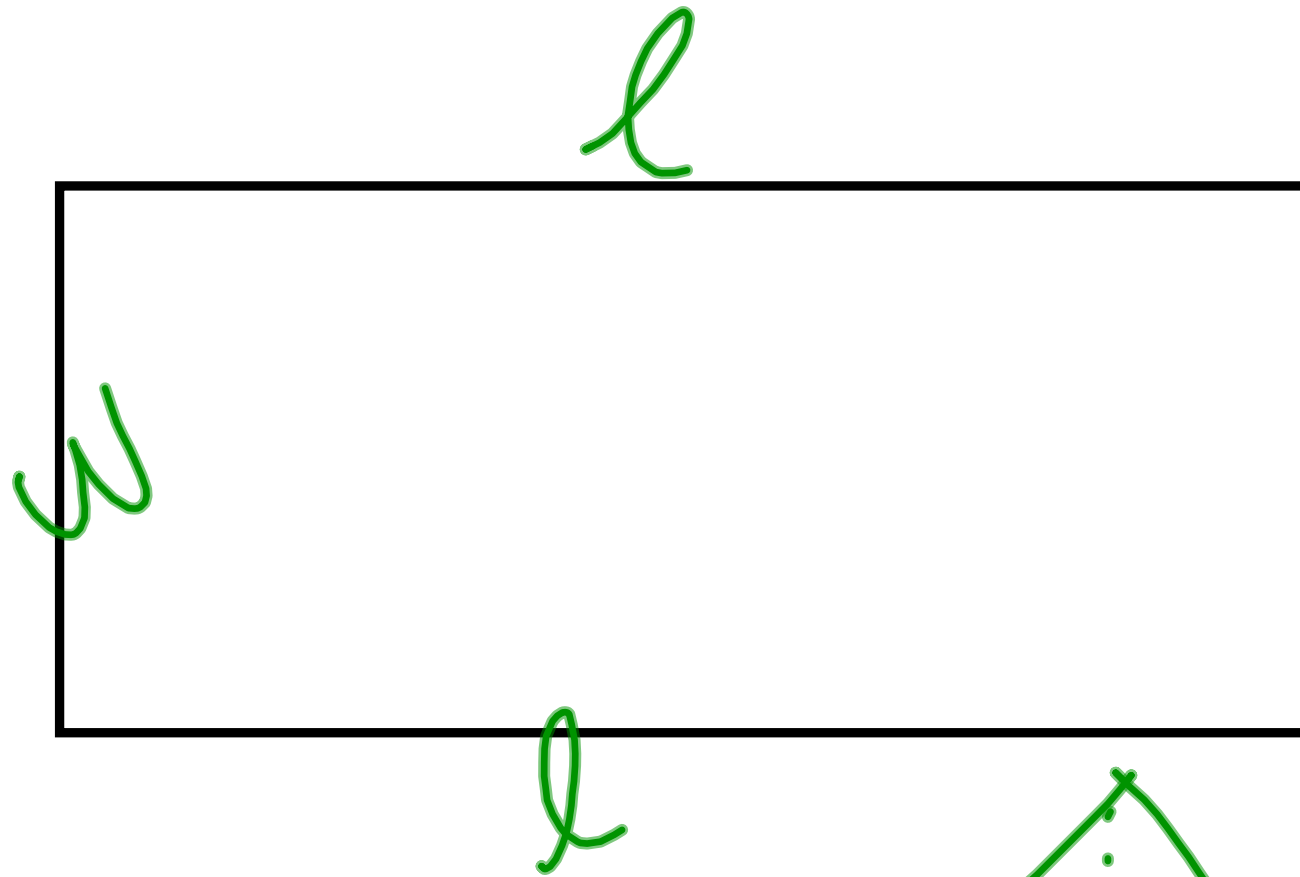
$$a=3 \text{ and } b=2$$

$$2a+3a-4(a+1) \quad a=5$$

$$4b-7 \quad b=3$$
$$4(3)-7 = 12-7=5$$

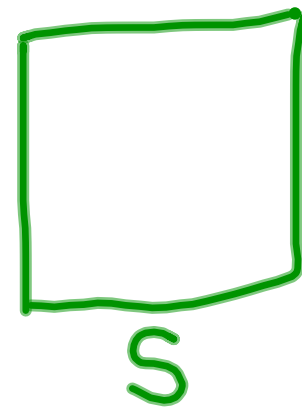
$$2(5)+3(5)-4(5+1)$$
$$10+15-24$$
$$25-24=1$$

Formulas

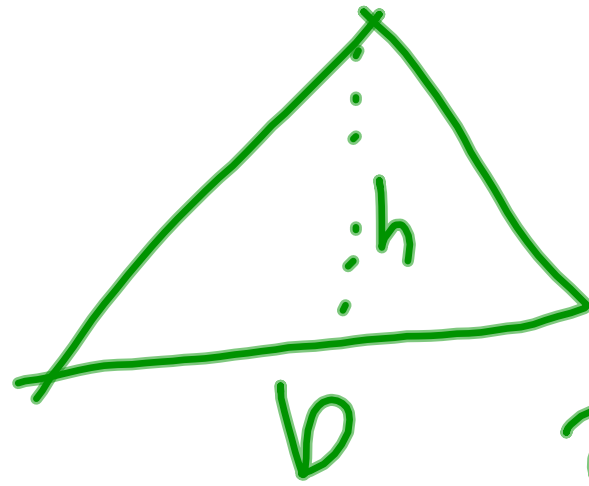


Perimeter $2l + 2w$

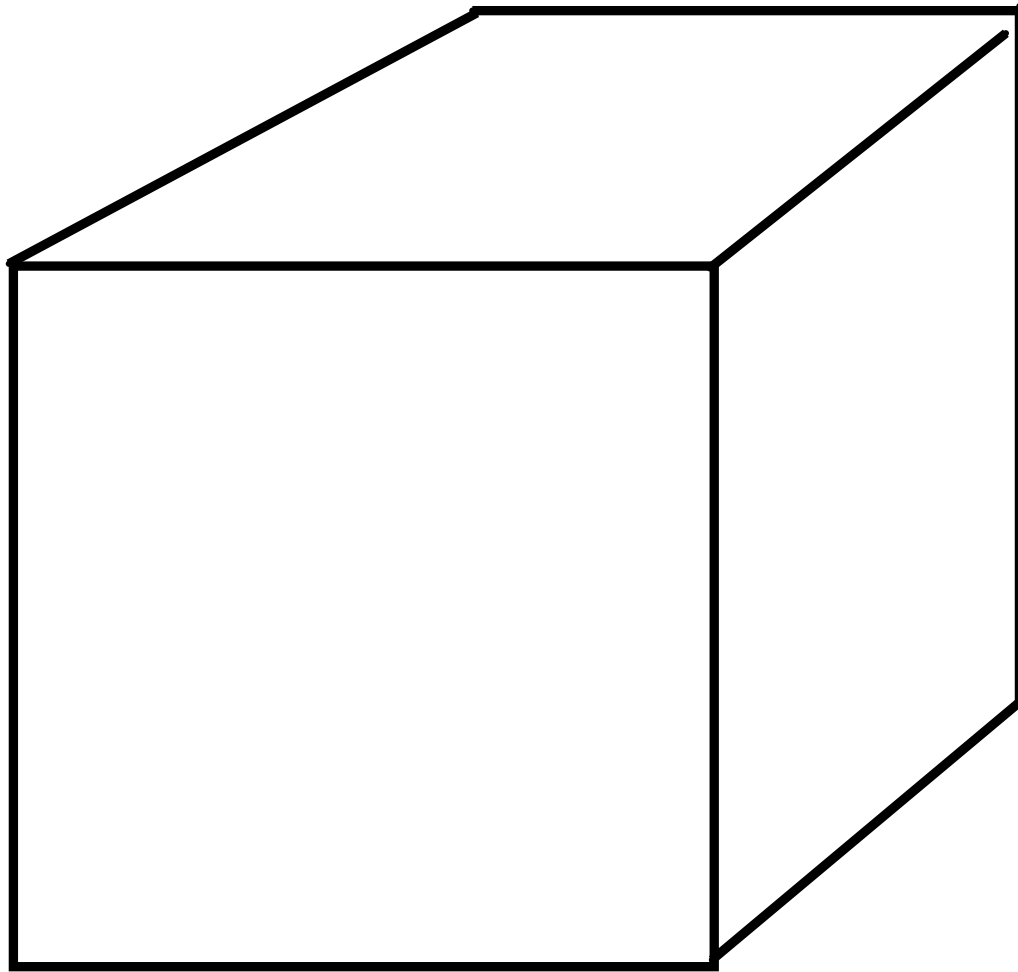
Area $l \cdot w$



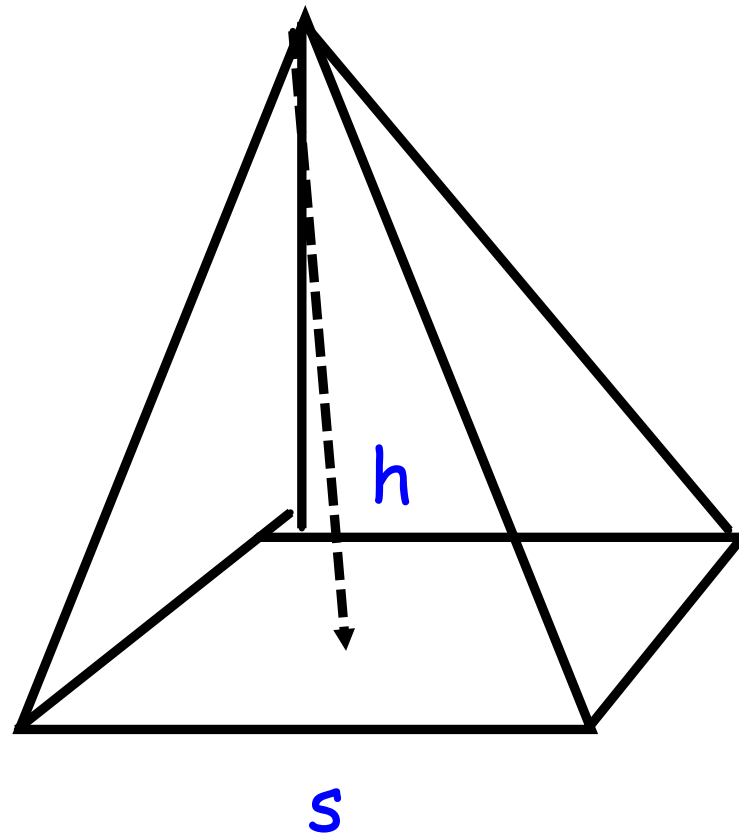
s^2



$\frac{1}{2}bh$



Volume



Volume