PREALGEBRA SOLUTIONS

Toy Story

$$\begin{array}{c|c}
1 & 2(9) - (11+3) \div 2 \\
18 - 14 \div 2 \\
18 - 7 = 11
\end{array}$$

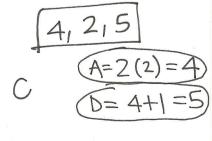
$$\begin{array}{c|c}
2 & \text{guadrantifyvadrant} \\
2 & \text{guadrantifyvadrant}
\end{array}$$

3)
$$X = Smallest$$
 of the four consecutive numbers
The other three numbers would then be
 $X+2$, $X+4$, $X+6$
Thus, $(x)+(x+2)+(x+4)+(x+6)=84$
 $4x+12=84$ $x=18$ E
 $\frac{4x}{4}=\frac{72}{1}$

5)
$$6x-4x = 28$$

 $2x = 28$
 $x = 14$
 $14 \cdot 60 = 840$

A= 2M D= A+1 which is also D=2M+1
A+ M+D+5=16
$$\leftarrow$$
 2pizzas · 8slices = 16
A+M+D=11; substitute and get 2M+M+2M+1=11 5M=10





1 2 toys between Mr. PH & Mrs. PH; Mr. PH jumped 12 cont. after Mrs. PH (2) Mr. PH jumped sometime before woody 3) Mrs.PH jumped out after Rex 4) Hamm jumped out before Buzz (5) Buzz jumped out sometime after Rex & woody jumped out sometime after Buzz Therefore, [Rex, Mrs. PH, Hamm, Buzz, Mr. Potato Head, Woody/ * in terms of g, dimes= = 3g 13 q=# of quarters and nickels = 39 $9 + \frac{3}{2}9 + 39 = 22$ 3(4)=6 dimes $\frac{11}{29} = \frac{22}{4}$ $\frac{2}{4} = \frac{4}{3}$ $\frac{2}{4} = \frac{11}{4}$ $\frac{11}{4} = \frac{11}{4}$ $\frac{11}{4} = \frac{11}{4}$ $\frac{11}{4} = \frac{11}{4}$ [4,6,12] 14) $28-8\times2-4(6+4\times)$ a) $-\frac{2}{13}\approx-.1538$ $28-8\times2-24-16\times$ -286) -15 = -3.75 c) $-\frac{13}{2}$ = -6.5d) $-\frac{20}{3}$ $\approx -6.6667 < less than -6.5$ -8xZ-52-16x $\frac{8 \times 2 - 52}{8} \times 2 - \frac{52}{8} \leftarrow -6.5$ $85 \div 5 = 17$ $100 \div 5 = 20$ $4 \times 2 \times - 1 = 4$ 161 2(65)-1= 130-1= [129] 17 33 33 | 65 $-4.2 -38.48 \Rightarrow \frac{9.161... \text{ round}}{42 \sqrt{384.8}} = 9.161... \text{ round}$ 65 129 17 $\frac{-38.48 = -4.2 \times}{-4.2}$

$$\frac{18}{16\pi} = \frac{\pi r^2}{\pi}$$

$$\frac{16\pi}{\pi} = \frac{\pi r^2}{\pi}$$

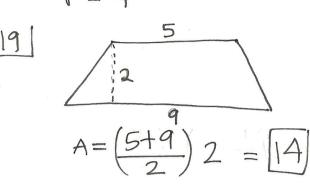
$$\sqrt{16} = \sqrt{r^2}$$

$$r = 4$$

$$C = 2\pi r$$

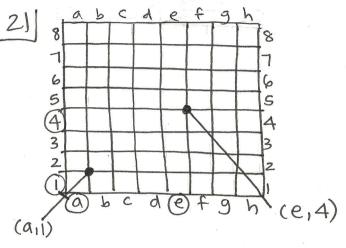
$$C = 2\pi \cdot 4$$

$$C = 8\pi$$



smallest prime #=2 ← height Shorter base (GCF of 25, 35,60) = 5 longer base= 5(2)-1=10-1=9

$$20(5^n)^2 = 5^6$$
, so, $5^{2n} = 5^6$, and $2n = \frac{6}{2}$ $n = \frac{3}{2}$ bases are the same



B

22 slope =
$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

therefore, $\frac{6 - 1}{f - b} = \frac{5}{f - b}$

toy soldier starts at (b,1) ends up at (f, 6)

Mrs. Potato Head
$$(4)^2 + (X)^2 = (7)^2$$

$$4ft$$

$$1(e + X^2 = 49 \quad X = \sqrt{33}$$

$$\sqrt{X^2 = \sqrt{33}}$$
B
$$\sqrt{X^2 = \sqrt{33}}$$

24 I. commutative property; False II. commutative property cannot be used for subtraction; Faise II. True (order changed) 2 IV. True (different grouping) $25 \left(2q^{3}3r^{4} \cdot 2q^{3}r^{3} \right)^{2} = \left(4q^{6}3r^{7} \right)^{2} = \left| 16q^{12}9r^{14} \right|$ $\frac{7!5!}{6!4!} = \frac{7 \cdot 6! \cdot 5 \cdot 4!}{6! \cdot 4!} = 7 \cdot 5 = 35$ 7.6.5.4.3.2.1.5.4.3.2.1 6.5.4.3.2.1.4.3.2.1 27 A= hexagon has 6 sides B = GCF of 48,60,84 is 12 C = LCM of 10,14,18 is 630 $t = 2(6^2) + 4 \cdot 12 - 630 \div 10$ $= 2(36) + 4 \cdot 12 - 630 \div 10$ = 72 + 48 - 63 B 28 26+30= 56 30

Stinky Pete



$$\chi = 23$$

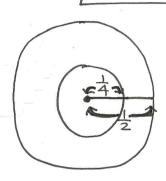
$$\frac{23}{60} : \text{radius}$$

circumference of one eye

$$C = 2\pi r = 2\pi \left(\frac{23}{160}\right) = \left(\frac{23}{30}\right)\pi = \frac{1}{30}$$

total circumference of one alien's three eyes $3 \cdot \left(\frac{23}{30}\right) \pi = \left(\frac{23}{10}\right) \pi = \left(\frac{23}{10}\right) \pi = \left(\frac{23}{10}\right) \pi$

30



ABIG CIRCLE = $\pi(\frac{1}{2})^2 = (\frac{1}{4})\pi = (\frac{4}{16})\pi$

ASMALL CIRCLE = $\pi \left(\frac{1}{4}\right)^2 = \left(\frac{1}{16}\right)\pi$

A SCLERA =
$$(\frac{4}{16})\pi - (\frac{1}{16})\pi = (\frac{3}{16})\pi$$

$$= \frac{3\pi}{16}$$
D