

Math Bowl  
April 17, 2013

1. Start with 63

Divide by 7

$$63 \div 7 = 9$$

Multiply by 5

$$9 \times 5 = 45$$

Add  $5^2$

$$45 + 25 = 70$$

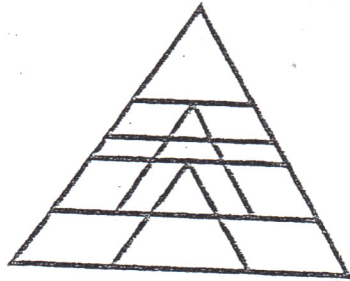
Double your answer

$$70 \times 2 = 140$$

What number did you end with?

140

2. How many triangles are shown in this diagram?



10

3. Mr. Rogers is talking to his neighbor Mr. Jones. Rogers tells Jones he has 6 children: Melinda is 8, Danny is 15, Robert is 12, Cindy Sue is 5, and Waldo is 17. If the average age of the children is 10, how old is Bobby, the 6<sup>th</sup> child?

$$\begin{array}{r} 66 \\ \times 10 \\ \hline 660 \end{array}$$

$$\begin{array}{r} 8 \\ 15 \\ 12 \\ 5 \\ 17 \\ \hline 57 \end{array}$$

$$\begin{array}{r} 60 \\ -57 \\ \hline 3 \end{array}$$

3

4. Quadruple 24 (Hint: this involves multiplication)

$$\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$$

5.  $10 * 9$

$* 0 = ?$

0

6. If Alfonzo can walk at a speed of 5 miles per hour, how long will it take him to get to Gabrilena's house 20 miles away?

$$\begin{array}{r} 4 \\ 5 \overline{)20} \end{array}$$

4 hrs.

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April 17, 2013

1. Andy has 12 Pokemon cards. His best friend R.J. has 3 times as many cards as Andy. Their friend Ross has half as many as both Andy and R.J. combined. How many total cards do all three friends have?

$$A = 12$$

$$RJ = 36$$

$$\begin{array}{r} 48 \\ + Ross \quad 24 \\ \hline 72 \end{array}$$

72

2. A jar contains two blue balls and six green balls. What chance does Zebulon have of picking out a blue ball on his first try? Answer in fraction form.

$$\frac{2}{8} = \frac{1}{4}$$

3. You have 6 quarters, 2 dimes, 0 nickels, and 5 pennies. How many nickels do you need to have a total of 2 dollars?

$$6 \text{ quarters} = 1.50$$

$$2 \text{ dimes} = 0.20$$

$$5 \text{ pennies} = \underline{0.05}$$

$$1.75$$

$$\begin{array}{r} 2.00 \\ -1.75 \\ \hline \end{array}$$

$$0.25 = 5 \text{ nickels}$$

5

4. Kirsten, Heidi, and Jason are waiters at Ziggy's House of Pies. Together they made \$270 in tips. They decided to split it equally. Heidi, leaving first, took her share of the money. Kirsten not knowing that Heidi had already taken her money, took  $\frac{1}{3}$  of what was remaining. Jason, not knowing the others had taken their money, took  $\frac{1}{3}$  of the remaining money. How much money was left of the tips?

$$3 \overline{) 270} \begin{array}{r} 90 \\ -90 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 270 \\ -90 \\ \hline 180 \end{array}$$

$$3 \overline{) 180} \begin{array}{r} 60 \\ -60 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 180 \\ -60 \\ \hline 120 \end{array}$$

$$3 \overline{) 120} \begin{array}{r} 40 \\ -40 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 120 \\ -40 \\ \hline 80 \end{array}$$

\$ 80

5. Toys R'Us orders 2 boxes of blue play dough for every 6 boxes of green play dough. If 124 boxes of blue play dough are ordered, how many boxes of green play dough were ordered?

$$\frac{2 \text{ blue}}{6 \text{ green}} = \frac{124}{x}$$

$$124 \times 6 = 744$$

$$744 \div 2 = 372$$

372

6. If  $A \# B = 3A - B$  and  $A * B = \frac{A+B}{B}$ , find  $7 \# (8 * 5)$

$$8 * 5 = \frac{8+5}{5}$$

$$= \frac{13}{5}$$

$$A \# B = 7 \# \frac{13}{5} = 3(7) - \frac{13}{5}$$

$$21 - \frac{13}{5}$$

$$\frac{105}{5} - \frac{13}{5} = \frac{92}{5} = 18 \frac{2}{5}$$