

- ①  $n = 166.6$
- ②  $n = 56$
- ③  $n = 24$
- ④
- ⑤  $n = \frac{15}{40}$
- ⑥  $n = 6$
- ⑦  $n = 9$
- ⑧  $n = 32$
- ⑨ 56, 32
- ⑩ 51, 17
- ⑪ 17, 6
- ⑫
- ⑬ 24, 4
- ⑭ 6 minutes
- ⑮ 85, 60
- ⑯ 8.5 hours
- ⑰ After 6 weeks
- ⑱ Bill = 33¢  
Jim = 11¢  
Tom = 16¢
- ⑲ 50
- ⑳ 1st born = 6¢  
2nd born = 2.5¢  
3rd born = 2¢
- ㉑ 800 students  
100 adults
- ㉒ 120 6¢ shoes  
80 11¢ shoes
- ㉓  $hc = 142.5$   
 $f = 92.5$
- ㉔ 45 miles
- ㉕ 23 days

~~Diary~~

$$x = 3y - 1$$

$$x = 3(6) - 1$$

$$x = 17$$

$$3x = 8y + 5$$

$$x + y = 88$$

$$x - y = 24$$

$$\begin{array}{r} 1200 \\ \times 4 \\ \hline 4800 \end{array}$$

$$2n = 6n + 500$$

$$\begin{array}{r} 56 \\ + 32 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 54 \\ + 34 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 100 \\ \times 46 \\ \hline 600 \\ + 4600 \\ \hline 4600 \end{array}$$

$$x - (88 - x) = 24$$

$$\begin{array}{r} -3n = 500 \\ -3 \quad -3 \end{array}$$

$$3(3y - 1) = 8y + 5$$

$$9y - 3 = 8y + 5$$

$$y - 1 = 5$$

$$y = 6$$

$$x = 3y$$

$$x = 3(6)$$

$$x = 18$$

$$6n - 6 = 3n + 12$$

$$3n + 22 = 7n - 14$$

$$3n - 6 = 12$$

$$22 = 4n - 14$$

$$36 = 4n$$

$$9 = n$$

$$3n = 18$$

$$n = 6$$

$$\frac{7}{3} \cdot \frac{3}{7}n = 24 \cdot \frac{7}{3}$$

$$n = 56$$

$$a + b + c = 60$$

$$a = 36$$

$$c = 5 + b$$

$$17 + x = 2(17 + y)$$

$$x + y = 84$$

$$17 + 3y = 34 + 2y$$

$$2x - 12 = y$$

$$n + n(\frac{7}{4}) = 30$$

$$17 + y = 34$$

$$y = 17$$

$$x + (2x - 12) = 84$$

$$n = 24$$

$$b = a - 1$$

$$3x - 12 = 84$$

$$c = 2b - 5$$

$$3x = 96$$

$$x = 32$$

$$a = c + 12$$

$$n(\frac{7}{4}) = n(\frac{2}{3}) - 50$$

$$\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32} = \frac{15}{40}$$

$$\frac{10}{25} = \frac{20}{32.5} = \frac{30}{40} = \frac{40}{47.5} = \frac{50}{55} = \frac{60}{62.5} = \frac{70}{70}$$

$$\frac{0}{6} = \frac{3}{8} = \frac{6}{10} = \frac{9}{12} = \frac{12}{14} = \frac{15}{16} = 18$$

$$x = 5y + 4$$

$$x = 5(4) + 4$$

$$x = 24$$

$$6 + x = 3(y + 6)$$

$$6 + (5y + 4) = 3y + 18$$

$$10 + 2y = 18$$

$$2y = 8$$

$$y = 4$$

$$x + y = 145$$

$$x - y = 25$$

$$y = 1$$

$$\begin{array}{r} 85 \\ + 59 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 85 \\ + 60 \\ \hline 145 \end{array}$$

$$\begin{array}{r} 72 \\ 2 \overline{) 144} \\ \underline{144} \\ 0 \end{array}$$

$$a = 3c$$

$$b = 50 + c$$

$$a + b + c = 10.50$$

$$3c + 50 + c = 10.50$$

$$5c + 50 = 10.50$$

$$5c = 10$$

$$c = 2$$

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