

Solve $\frac{d}{t} = r$ for t .

$$\frac{d}{r} = t$$

Solve $P = 2(l+w)$ for l

$$P = 2l + 2w$$

$$P - 2w = 2l$$

$$\frac{P - 2w}{2} = l$$

Handwritten notes:

$$\frac{d}{r} = t \Rightarrow r \cdot t = d$$

$$\frac{d}{r} = t \Rightarrow \frac{d}{t} = r$$

$$P = 2(l+w) \Rightarrow \frac{P}{2} = l+w$$

$$\frac{P}{2} - w = l$$

Finding Averages using equations

How do you calculate average?

$$\text{Average} = \frac{\text{Sum}}{\text{total}}$$

Find your test score

You want to make a 90% in english class. Your last 3 test scores are 86, 75, and 88. You have another test before the quarter ends. What must you make on that test to reach your goal of a 90% average?

$$\text{Average} = \frac{\text{Sum}}{\text{total}}$$

$$4 \cdot 90 = \frac{86 + 75 + 88 + x}{4}$$

$$360 = 259 + x$$

$$-259 \quad -259$$

$$101 = x$$

Handwritten work:

$$\begin{array}{r} 86 \\ +75 \\ +88 \\ \hline 249 \end{array}$$

$$\begin{array}{r} 90 \\ \times 4 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 360 \\ -249 \\ \hline 111 \end{array}$$

Find the average

The performing arts center is currently running the show Les Miserables. They have a goal to average 10,000 ticket sales per night. The first 4 nights sales are as follows: 8,455, 11,233, 9,872, and 9,411.

How many tickets does the performing arts center need to sell on their last night to have an average of 10,000 ticket sales?

$$8455 + 11233 + 9872 + 9411 = 38971$$

$$5(10,000) = (38971 + x)5$$

$$50,000 = 38971 + x$$

$$-38971$$

$$x = 11,029$$

Consecutive Integers

How would you describe the word consecutive?

- in order
- in a row
- Chronologica)
- Back to Back
- Streak
- Sequential

Find two consecutive even integers whose sum is 34

16, 18

$$\frac{34}{2} = 17$$

Handwritten work:

$$\begin{array}{r} 16 \\ +18 \\ \hline 34 \end{array}$$

$$x + (x+2) = 34$$

$$2x + 2 = 34$$

$$-2 \quad -2$$

$$x = 16 \quad 2x = 32$$

Find three consecutive integers whose sum is 72.

Find five consecutive integers whose sum is 170.

32, 33, 34, 35, 36
✱

Find three consecutive odd integers whose sum is 129.

Around the World (ATW)

Review

Write an equation to match the verbal description

If three times a number is decreased by 24 the result is 4 less than seven times a number.

More Review

When two times a number is decreased by four the result is 6 more than a number. Find the number.