

I can write and solve equations to find averages and missing

Lesson 4-6 values with averages. **11/18/19**

Warm Up: Your quiz grades in math so far have been 78, 64, 92, 65, and 60. Calculate your average quiz grade.

① Add all numbers.

$$\frac{78+64+92+65+60}{5}$$

② Divide by amount of data added.

$$\frac{359}{5} = 71.8 = \textcircled{72}$$

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Find the average: Round to nearest tenth.

a. 12.5, 8.3, 10.4, 11.9, 7.6

b. 1893, 1904, 1700, 2043

$$\frac{12.5+8.3+10.4+11.9+7.6}{5}$$

$$\frac{50.7}{5} = 10.14$$

$\textcircled{10.1}$

$$\frac{7540}{4} = \textcircled{1885}$$

I can write and solve equations to find the missing number.

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- (1) Haley, Chuck, Dana, and Chris enter a contest to see who could bake the most chocolate chip cookies in an hour. Haley bakes 55, Chuck bakes 70, and Dana bakes 90. If they bake an average of 75 cookies, how many cookies does Chris bake?

Let $x = \text{Chris' cookies}$

$$\frac{55 + 70 + 90 + x}{4} = 75$$

~~$$\frac{215 + x}{4} = 75 (4)$$~~

$$\begin{array}{r} 215 + x = 300 \\ -215 \quad -215 \\ \hline \end{array}$$

$$x = 85$$

Chris
baked
85 cookies

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- (2) Four wrestlers made a pact to lose some weight before their wrestling competition. Campbell lost 6 pounds, Alex lost 5 pounds, and Eric lost 9 pounds. If their average weight loss was 7 pounds each, over a 3-week period of time, how many pounds did Rock lose?

Let $x = \text{Rock's weight loss.}$

$$\frac{6 + 5 + 9 + x}{4} = 7$$

~~$$\frac{20 + x}{4} = 7 (4)$$~~

$$\begin{array}{r} 20 + x = 28 \\ -20 \quad -20 \\ \hline x = 8 \end{array}$$

Rock
lost 8 lbs.

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(3) Stephen has made a 91, 96, and 95 on the first three quizzes this quarter. If he makes the same score on the last **two** quizzes, what grade does he need to make on each quiz to have a quiz average of EXACTLY 94 this grading period?

Let $x =$ Last 2 Quiz grades.

$$(5) \frac{91+96+95+x+x}{5} = 94(5)$$

Stephen got 94
on the last 2
quizzes.

$$\begin{array}{r} 282 + 2x = 470 \\ -282 \quad | \quad -282 \\ \hline 2x \quad | \quad 188 \\ \hline 2 \quad | \quad 2 \\ \hline x = 94 \end{array}$$