M7 -7 days to go!

The word lengths of the first 60 words in a book were recorded.

The table shows the probability of some of these word lengths.

Number of letters	Probability	
1 – 2	0.1 (0	%
3 – 4	0.25	1/2
5 – 6	0.45	
7 – 8	0.15	
9 or more	0.05 = 5	12

All probabilities add to 1. 0-95+?=1.00

The first chapter contains 7500 words.

How many words of 9 or more letters would you expect in the first chapter?

Answer	words [4]
5% 4 7500	without a
= 375	10% of 7500
	= 750
	5% à ½ of 10%
n de la companya de National de la companya de la compa	5% is 750 2
	375

Solve the simultaneous equations

$$2x + 4y = 14$$
$$4x - 4y = 4$$

Do not use trial and improvement

$$\frac{2x + 4y = 14}{4x - 4y = 4}$$

$$\frac{2x + 4y = 14}{4x - 4y = 4}$$

$$\frac{4x - 4y = 18}{6x = 18}$$

$$x = 3$$

Substitute in
$$x=3$$
 into
$$2x+4y=14$$

$$6+4y=14$$

$$4y=8$$

$$y=2$$

Now check that 'it works

$$4x - 4y = 4$$
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