

med = 4.6 med = 5

med =
$$\frac{5.0+5.2}{2} = 5.1 \text{ med } 2.x = \frac{6+7}{2} = 6.5$$

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(drawn as b)

$$m = \frac{4z^{-4}}{x_{L}-x_{L}}$$

Choose:
$$(5,4.6), (8,6.1)$$

$$m = \frac{6.1-4.6}{8-5}$$

$$=\frac{15}{3}$$

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

is
$$y = \frac{1}{2}\pi + 2.1$$

3. Sub x = 17: $y = \frac{1}{2} \times + 2.1$ $y = \frac{1}{2} (17) + 2.1$

i. The mean word length for someone my age (17 y.o.) is 10.6 letters.

This prediction is not accurate since the majority of words in books that are torgetted towards 17 year-olds are not typically more than 10 letters long. This suggests that the mean-word length plateous or the slope of the line is gradually reduced for larger values of the recommended age.

4

Find mean word length of the passage.

It was a lazy sort of day in Bear Country. The air was so still that the leaves on the big tree house where the Bear family lived were hardly rustling. Except in the beehive, where the bees were always busy, nothing much seemed to be happening. It was the sort of day that I have a sometimes leads to mischief.

Mean word length = Sword length

2+3+1+4+4+2+3+2+4+7+3+3+3+2+5+4+3+6+2+3+3+4+5+3+4+6+5
= +4+6+8+6+2+3+7+5+3+4+9+6+4+7+4+6+2+2+2+3+3+3+4+6+5+3+4
+9+5+2+7

58

 $= \frac{238}{58}$

i, Mean word length = 4.103 letters

Sub mean word length into median-median line, y=4.103 letters:

y= = = 1x+2.1

4.103 = = = 7+2.1

x = 2(4.103 - 2.1)

= 4.007 years old

. The appropriate age level for the passage is 4.007 years old or about 4 years old.