New England Common Assessment Program

Student Work Samples 2010

Grade 6

Mathematics

11

The number is 7.

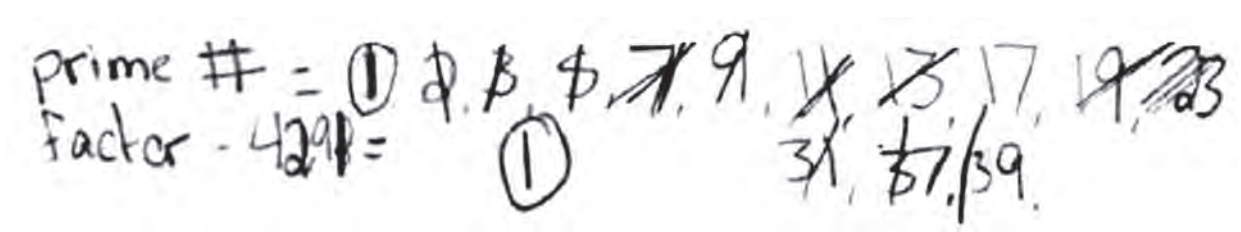
11

factors of 42
1 x 42
2 x 21
3 x 14
6 x 7

91
1 x 91
7 x 13

answer is (7) because that is a prime # and a prime # starts with 2.

11



12 9 and 13

12

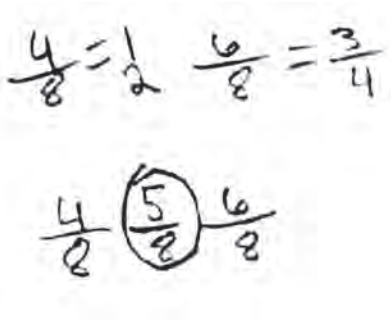
9, 13

$\frac{-1\frac{1}{2}}{9}$ $\frac{+9}{+4}$
13

12

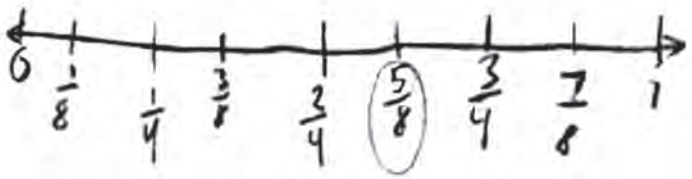
9, 12

13

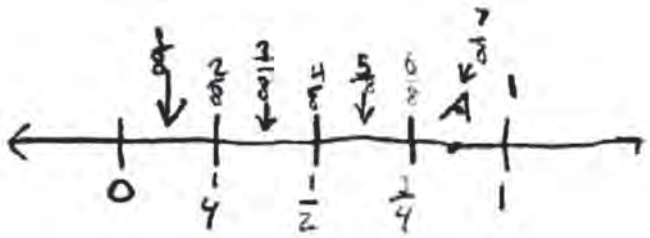


13

Point A represents $\frac{5}{8}$ because of this.



13



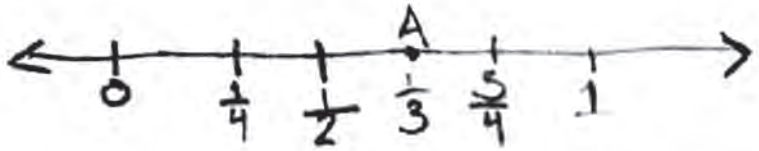
13

$\frac{1}{2} = 50\%$ $\frac{3}{4} = 75\%$

$\frac{b}{10} = 60$

It could be $\frac{b}{10}$ because it's between $\frac{1}{2}$ and $\frac{3}{4}$.

13



I think it would be $\frac{1}{3}$ because I think it would be in the middle of $\frac{1}{2}$.

14

(Part A.) He will trace Shape A and shape C

(Part B.) He will trace Shape A once and trace shape C four times

14

A. he will trace the triangle and the square

B. he will trace the triangle 4x and the square 1x

14

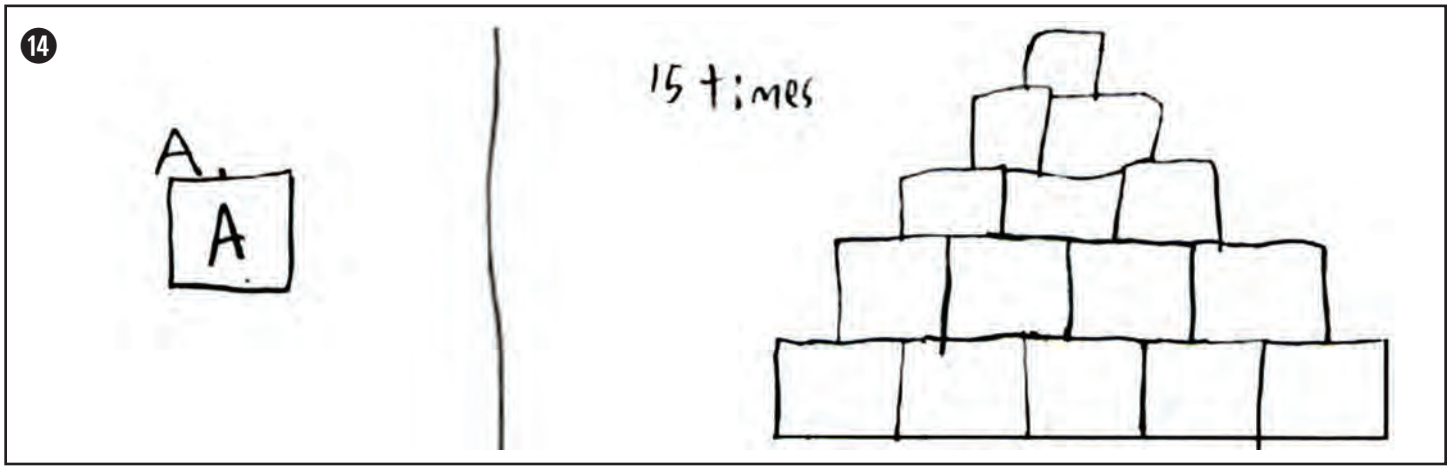
A. Kendrick will trace shapes A and C.
B. He will trace A five times, and he will trace C four times.

14

a = kendrick will trace A and D

b = A he will trace 4 times
D he will trace 2 times

14



15

75 82 84 90, 94

A. 84

b. 85

C. 97

87+6 = 522
425
(97)

15

75, 82, (84), 90, 94 {Answer: 84}

I got my answer by writing the numbers from least to greatest and then crossing out the end numbers until I got to the middle number.

(B)
75
90
82
84
+ 94
425

$5\overline{)425}$ = 85
40
25

{Answer: 85}

I got my answer by adding up all the numbers and then dividing the sum by the number of numbers there were.

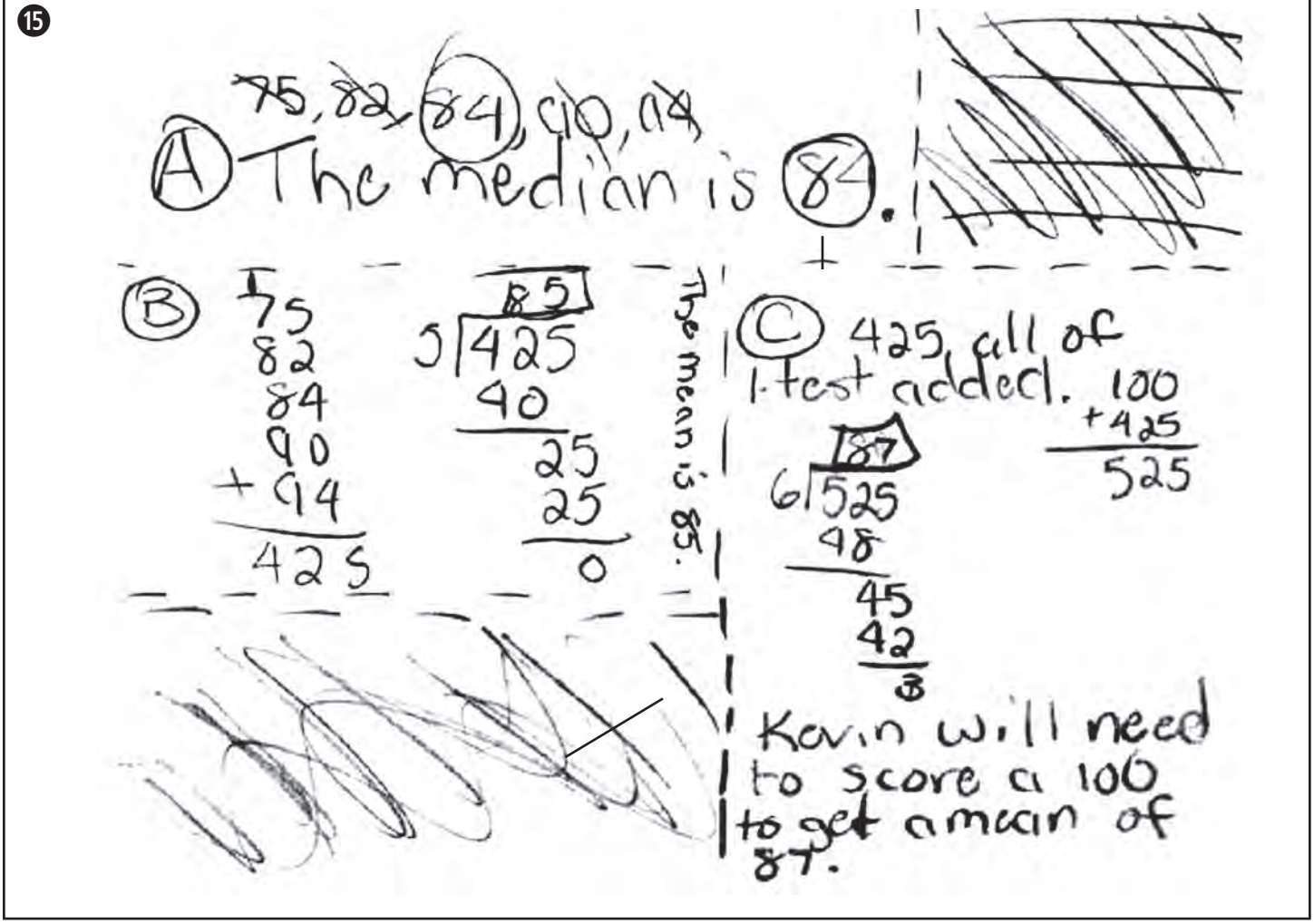
(C) {Answer: He has to get 94 percent}

I started with adding 100 and when that didn't work I added 99 then 98 and then when I added 94 to the mix and divided it by 6 I got my answer.

15

a. 87
b. 85
c. 6x87=522 so 425+97=522 so he will need a
97

15


75, 82, 84, 90, 94
A The median is 84.
B 75
82
84
90
+94
425
5|425
40
25
25
0
85
The mean is 85.
C 425 all of 1 test added. 100
+425
525
6|525
48
45
42
3
87
Kevin will need to score a 100 to get a mean of 87.

15

a. 84

b. 70 or 69.8

c. 140 because 84 ÷ 6 = 14 and then I add a zero?

15

A. Kevin's median test score is 82.
B. Kevin's mean test score is either 75, 90, 82 or 94.
C. Kevin need to have 100 on his 6th test.

test number	test score
1	75
2	90
3	82
4	94
5	