

4. Dr. Peterson is preparing to give his students their math final test scores. Symonds decides to question him about every aspect A. Minor of the class's scores. Dr. Peterson becomes angry and threatens to punish him by taking off 2/7 of a point for every question he asks. If Symonds' original score was a 100, what is the maximum number of questions he can ask and still pass? (65 and below is MMM. MMM. failing)

(a) 122

(b) 123

(d) 125

(c) 124

5. Mark decides to eat one piece of milk chocolate and one piece of white chocolate every day for three weeks. A piece of milk chocolate costs \$2 more than a piece of white chocolate, and the N. Clinor cost of Mark's chocolate over the three weeks is \$105. How many dollars does one piece of milk chocolate cost?

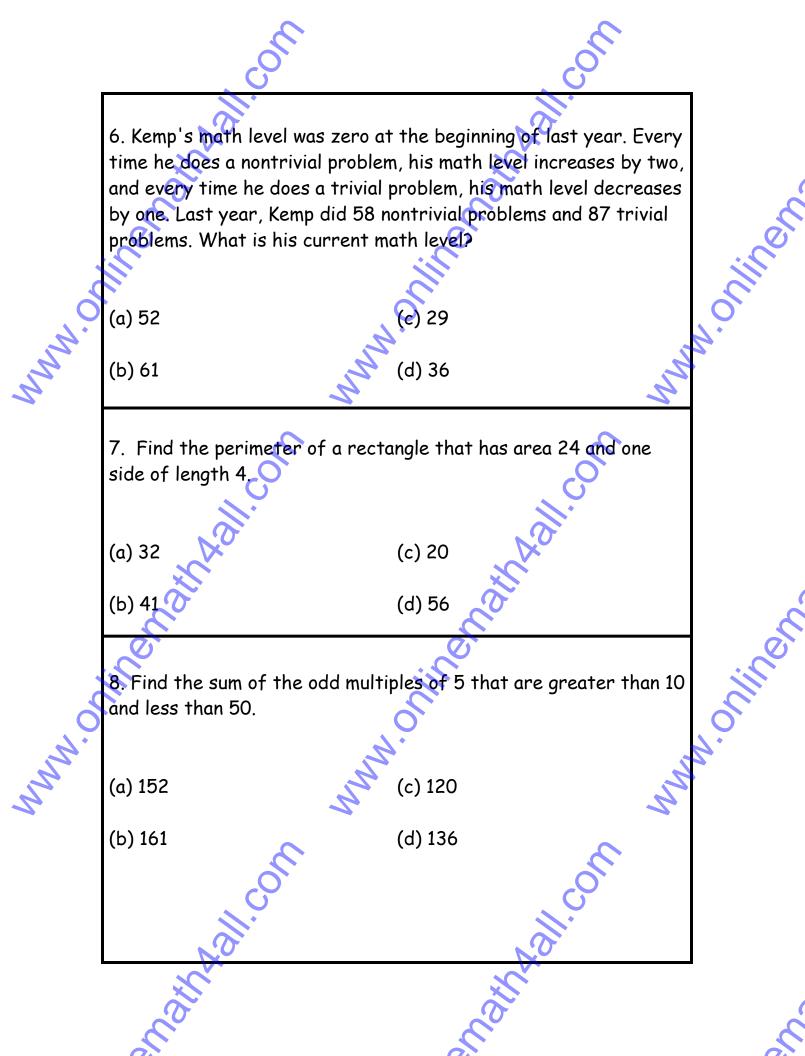
(c) 1.60 (d) 4.20

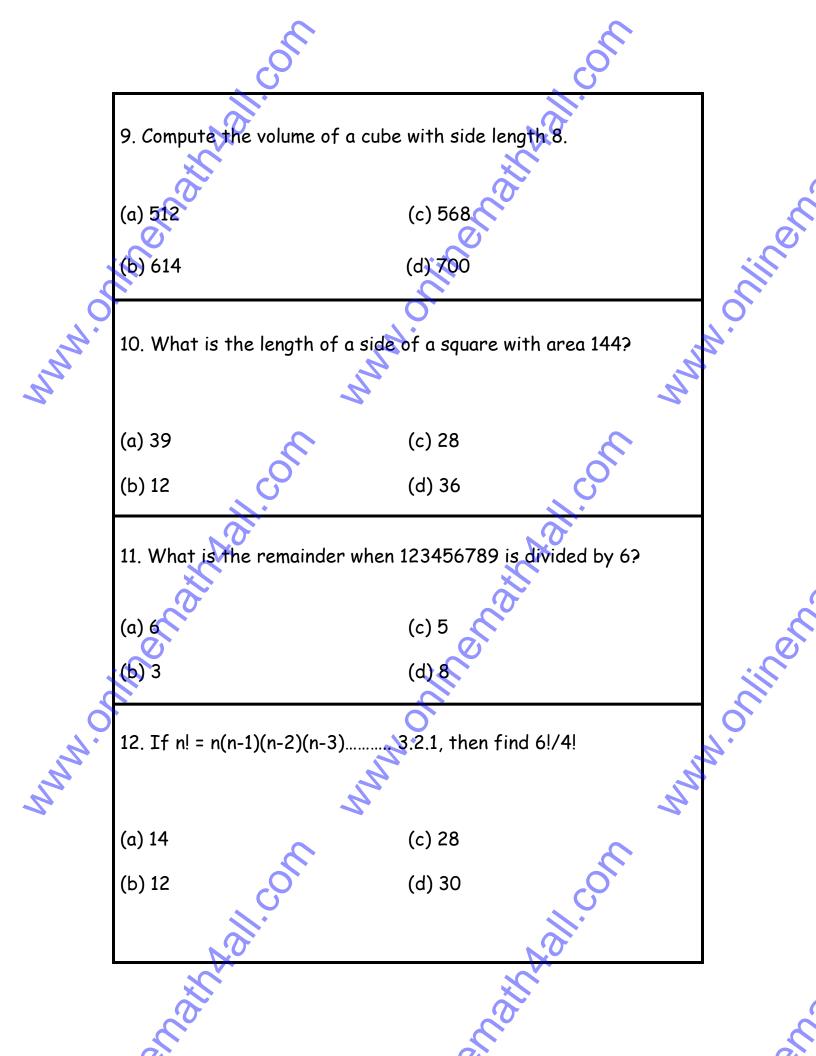
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(a) 3.50

MMM. (b) 2.10

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13. Jerry writes down one 1, two 2's, three 3's, etc. on a sheet of paper (so the number he writes down will look like 122333...) Find A. /n. (c) 4 (d) 8 the 30th number that he'll write down.

(a) 3

MMM. (b) 6

14. Lily is bored and writes down the numbers -4, -1, 2, 5,, 32 where every number she writes down is 3 more than the previous one she wrote down. How many numbers did she write down? NO A

(c) 28

(d) 30

(c) 28

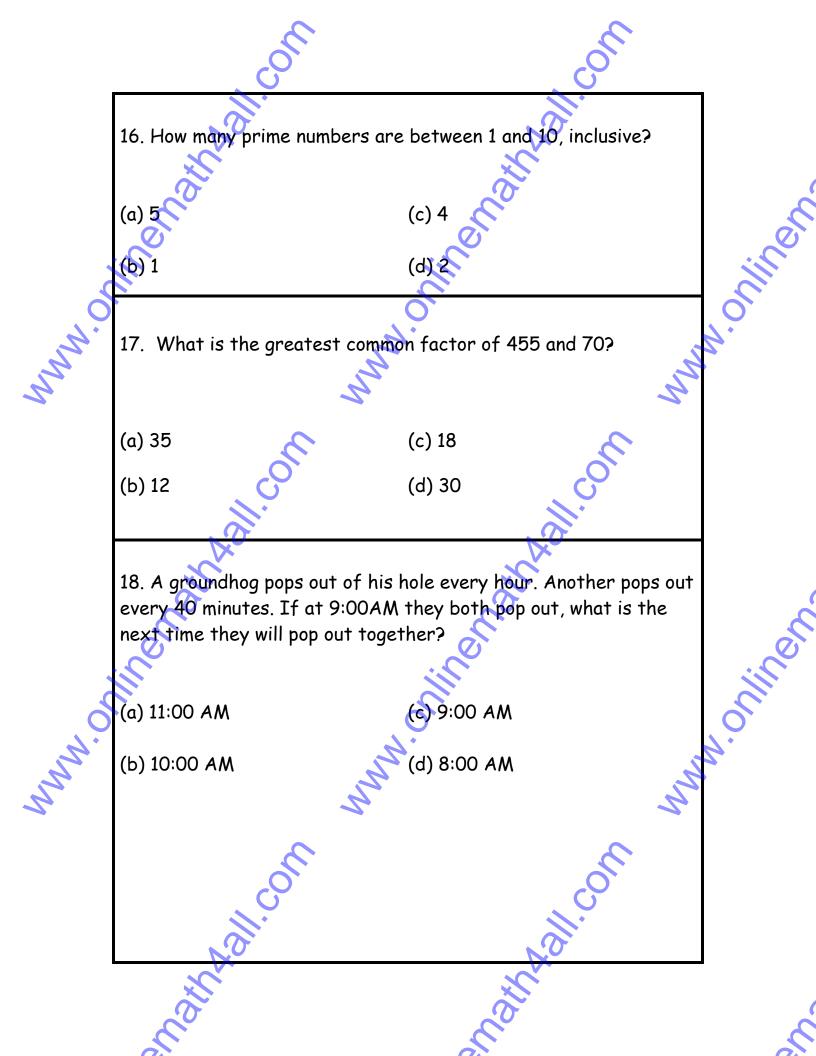
(d) 30

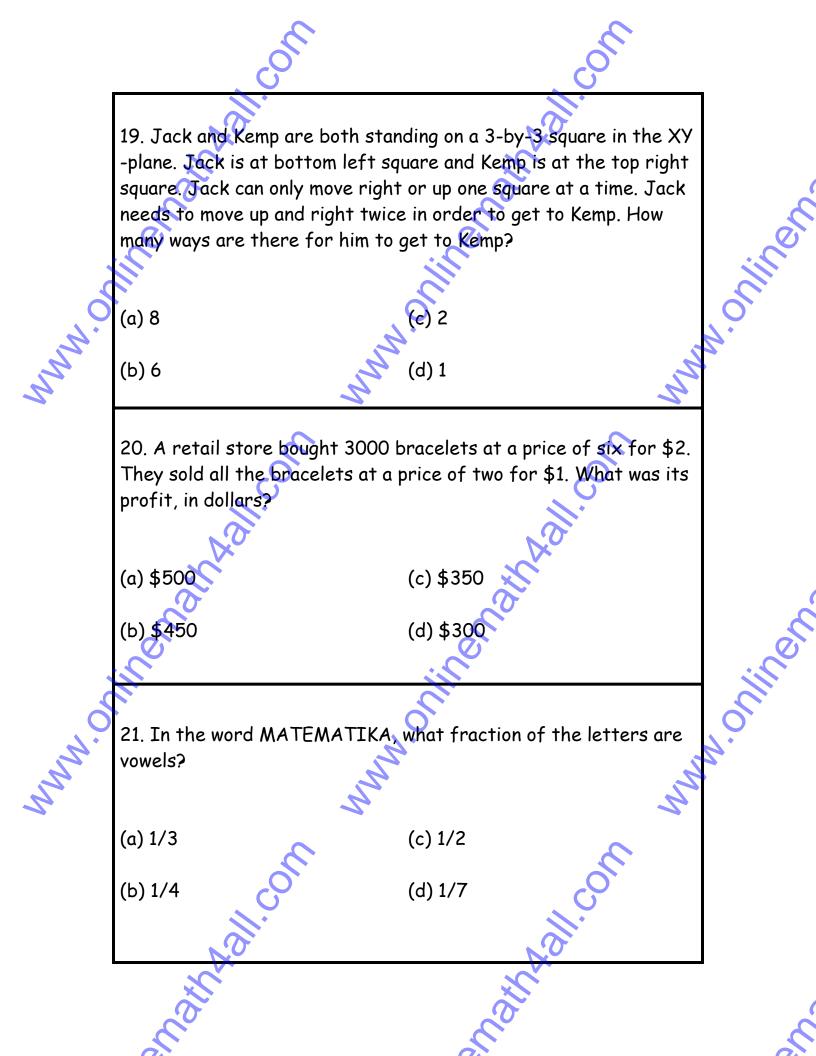
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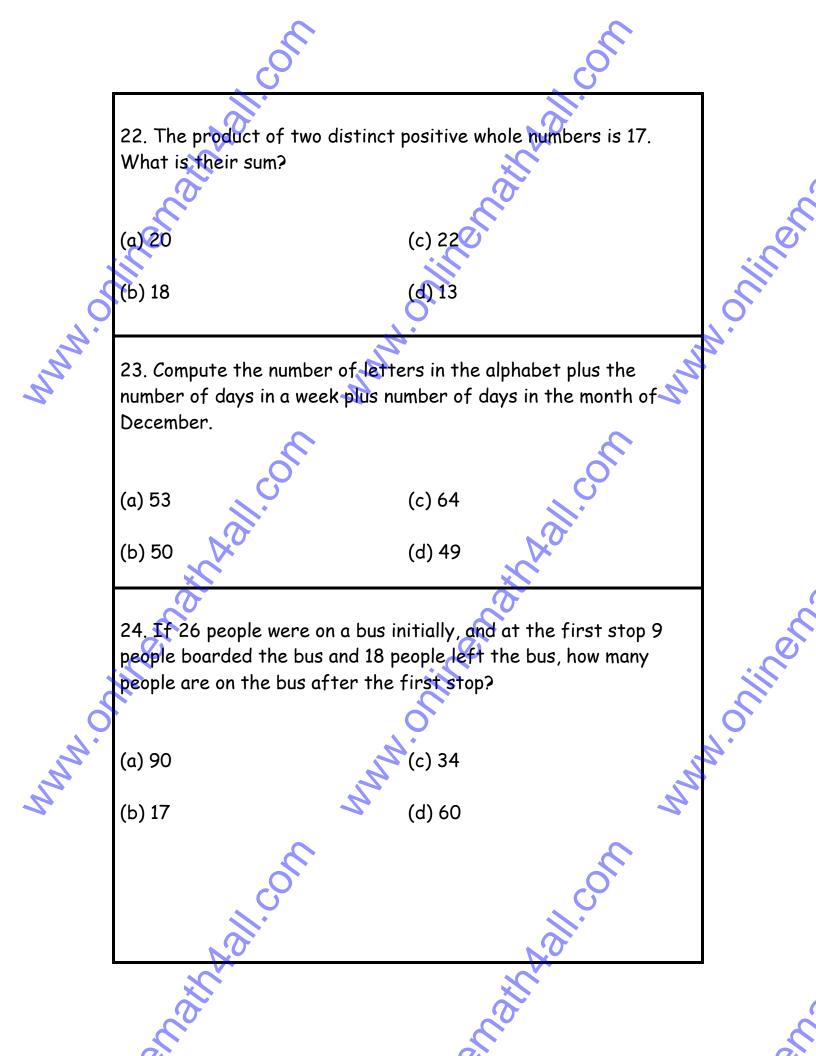
(a) 14 (b) <u>13</u>

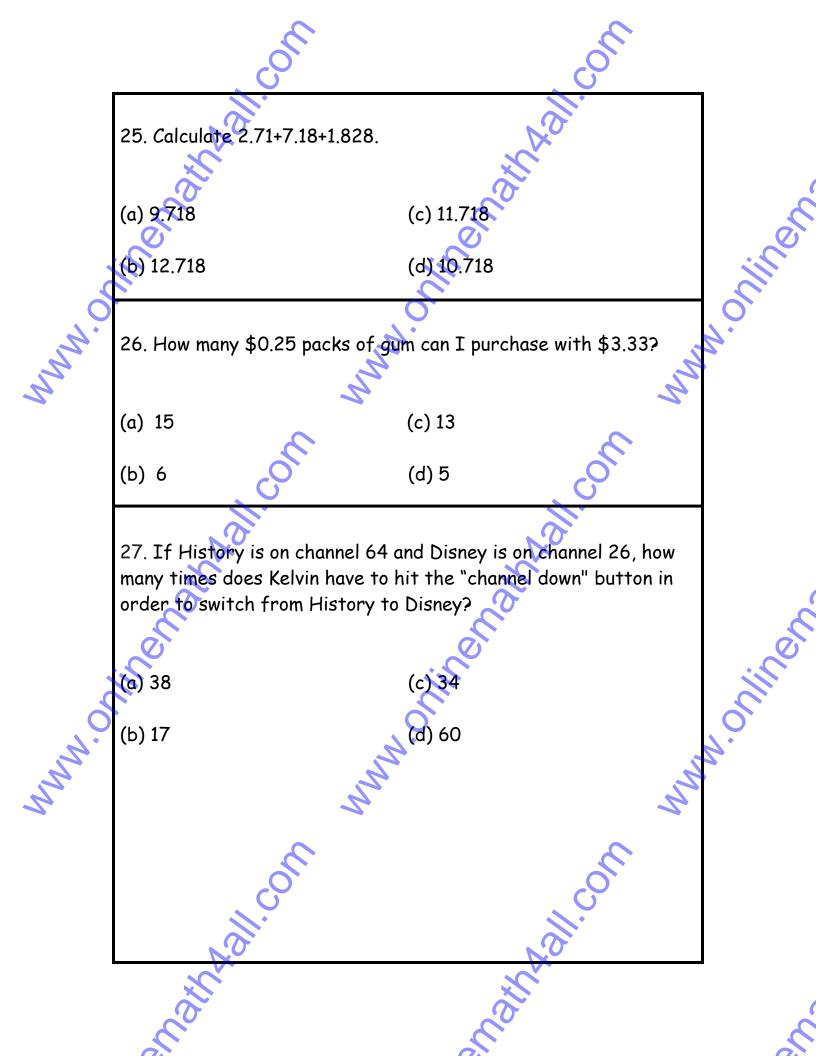
15. John needs some ideas to create problems for the BCA Math Competition, so he decides to walk around his house while he brainstorms. The perimeter of his house is 240 feet, and he walks at a constant speed of 4 feet per second. If John creates 10 problems every time he completes a lap, how many minutes will it take for him to create 250 problems?

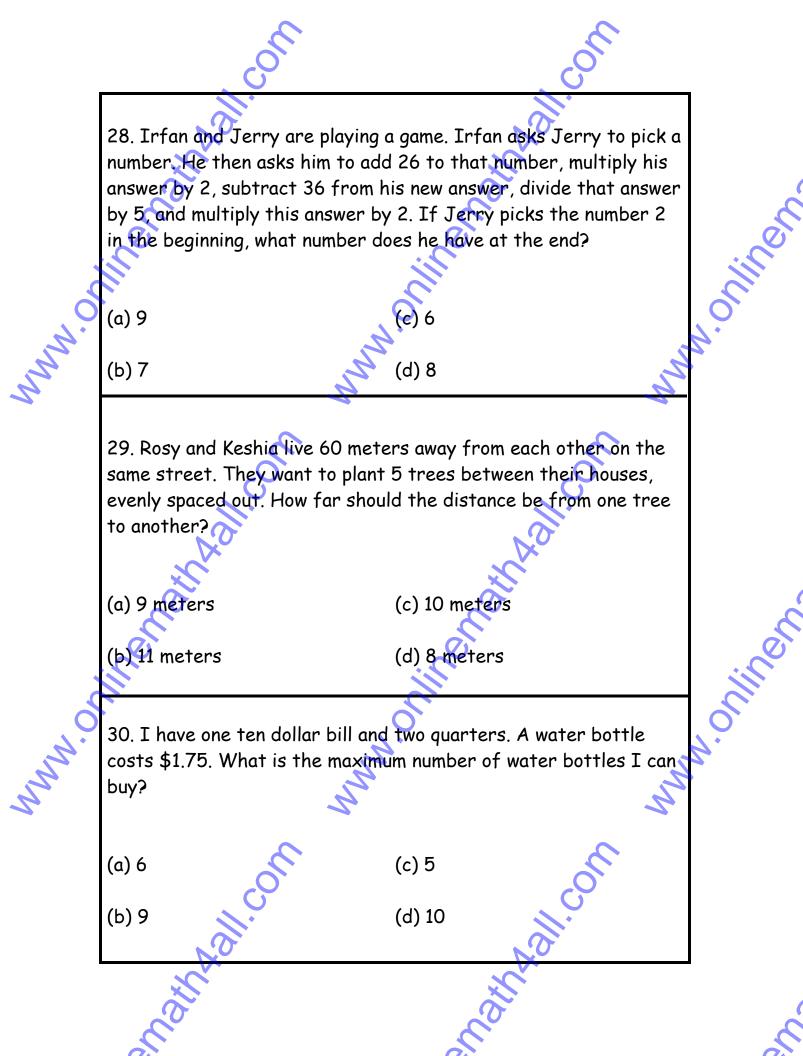
(a) 25 (b) 32 nnn

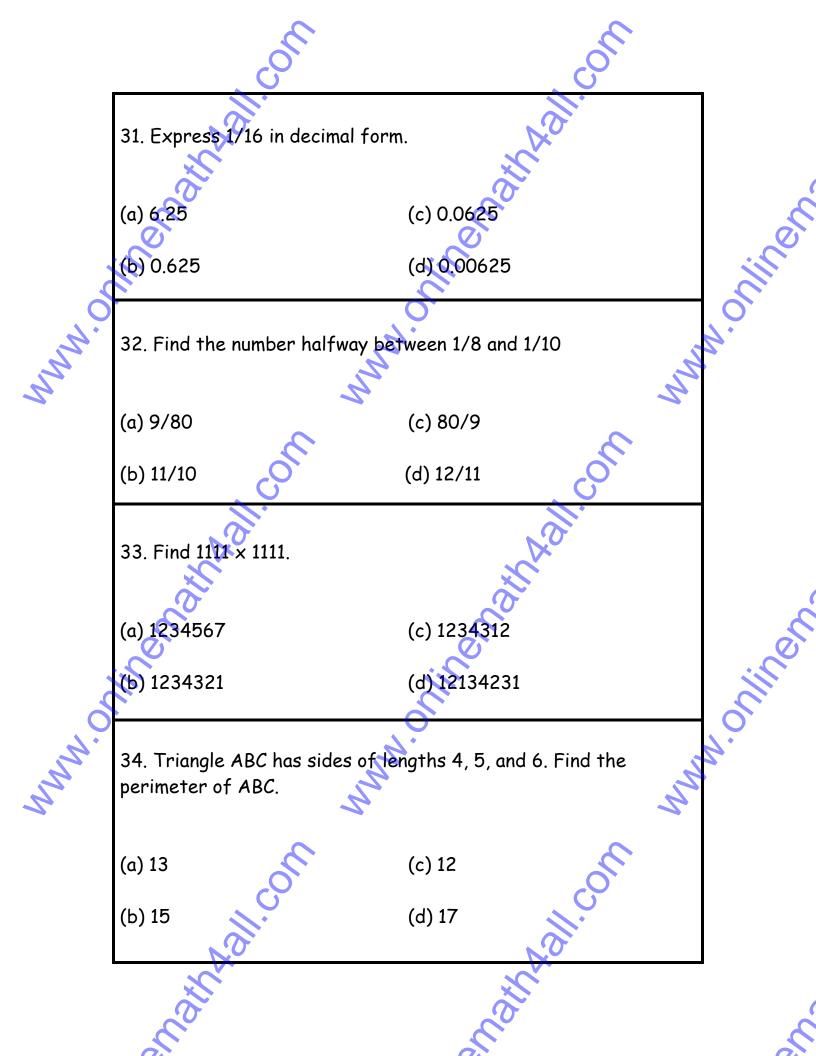


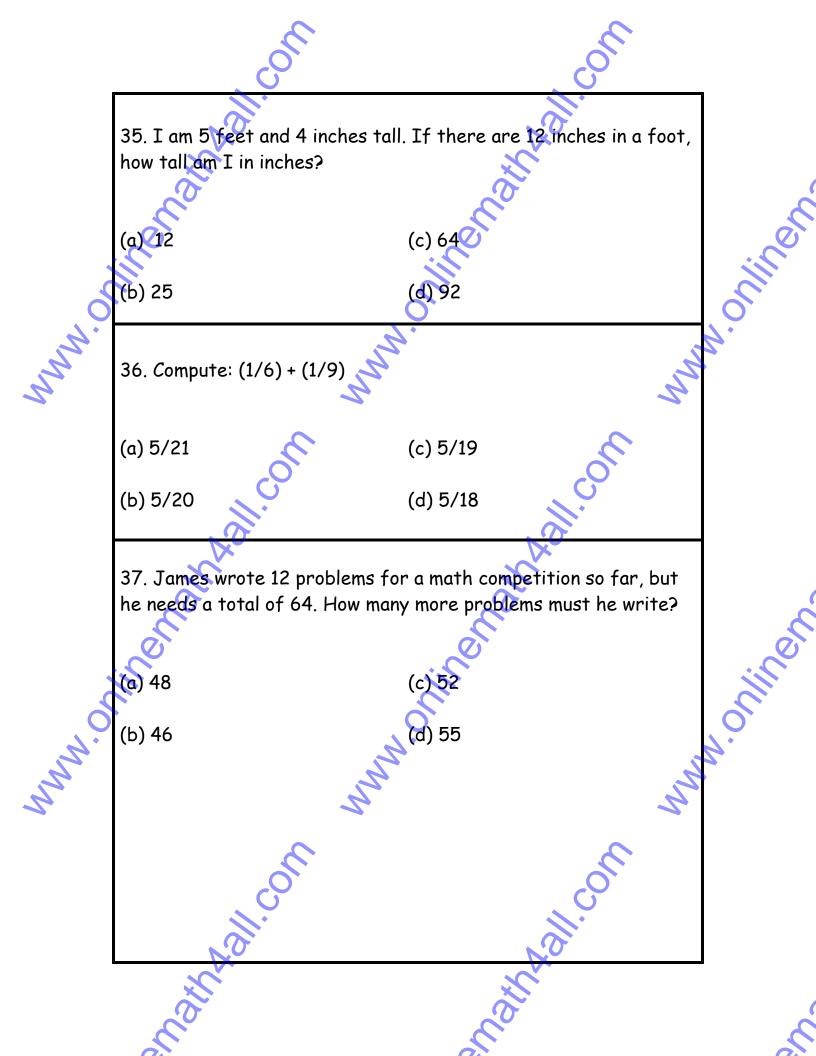


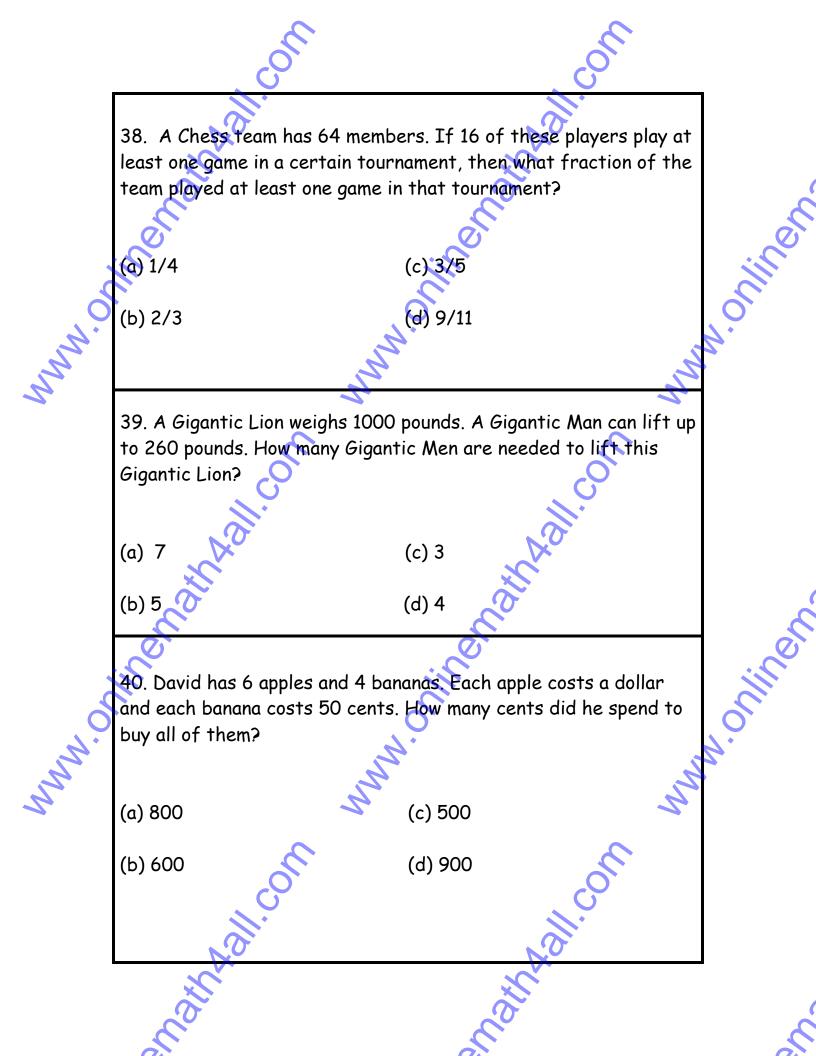




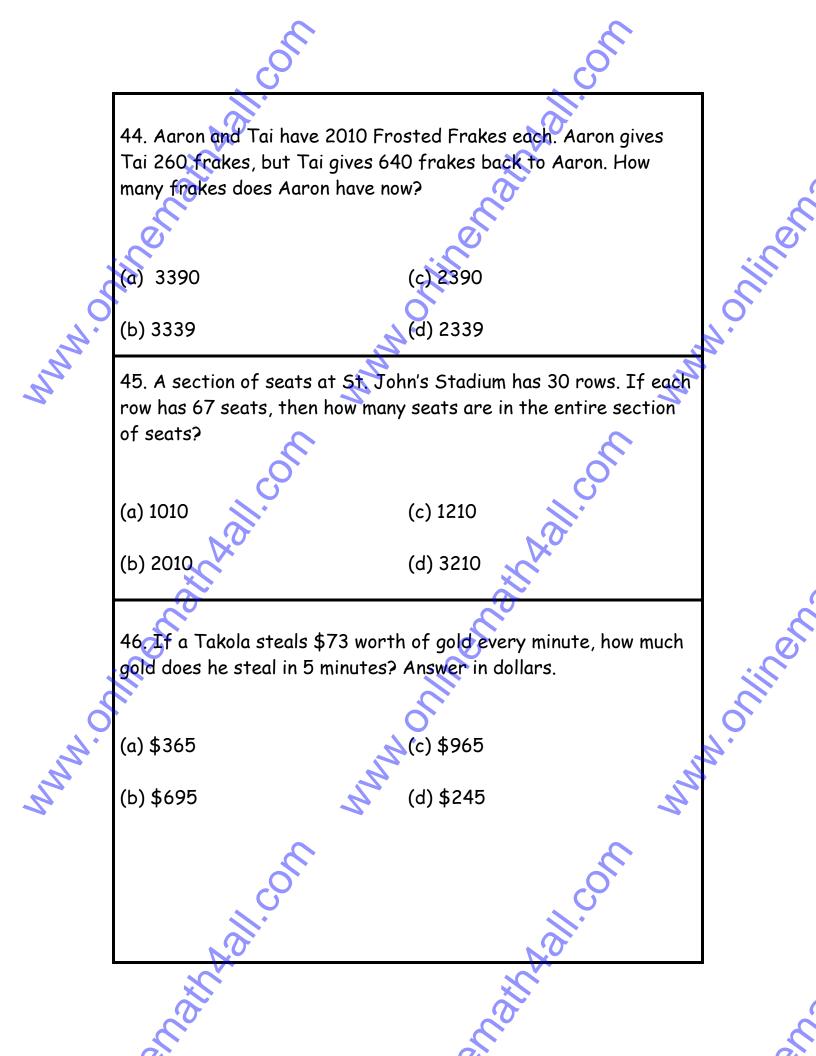


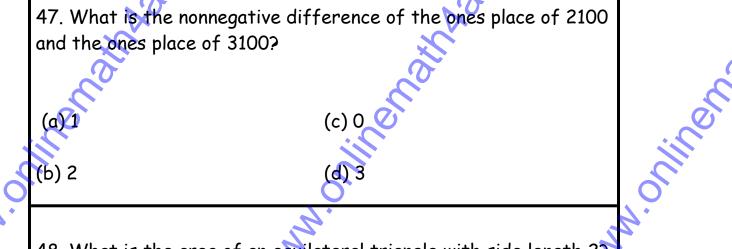












(c) 0 0

(d) 3

(c) √2

(d) √3

MMM. 48. What is the area of an equilateral triangle with side length 22

(a) √5

(b) √4

(a)

(b) 2

49. At Awesome Math, Mark, instituted a rule where if either of his roommates, Jongwhan or James, forgot to turn off their lights, they had to do 3x - 2 pushups, where x was the xth time either of them neglected to turn off their lights (so if Jongwhan forgot to turn it off, then James forgot, Jongwhan would do 1 pushup and James would do 4). If James didn't turn his lights off the 2nd, 4th, 5th, and 6th times and Jongwhan didn't turn his lights off the 1st, 3rd, and 7th times, how many more pushups did James do than Jongwhan?

(a) 17 (b) 16

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(c) 14 (d) 15



50. Kelvin wants to buy a book from Kemp. His encounter with Kemp will be awkward if either Kelvin forgets the money or Kemp MMA. Chinan forgets the book, but will not be awkward if both of them remember or both of them forget. Given that the chance that Kelvin forgets his money is 60% and thechance that Kemp forgets his book is 10%, find the probability that their encounter MMM ANN OF will not be awkward.

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(a) 36%

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(c) 42%

