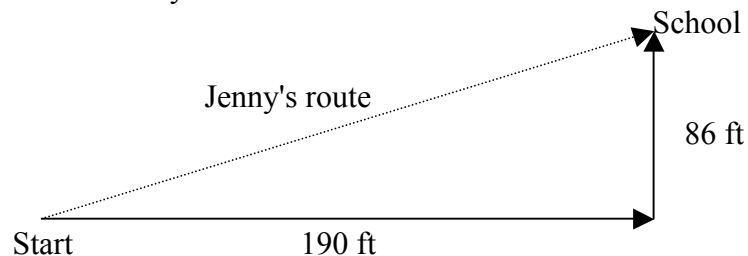


MONTANA COUNCIL OF TEACHERS OF MATHEMATICS
2012 MATH CONTEST

9 - 10 Team Test

DIRECTIONS: DO NOT WRITE ON THIS TEST. Place the best answer for each question on the separate answer sheet.

- Write the equation of a linear function that goes through the points (300, -194) and (-291, 200).
A) $y = -\frac{2}{3}x + 6$ B) $y = \frac{2}{3}x + 6$ C) $y = \frac{3}{2}x + 6$ D) $y = -\frac{3}{2}x + 6$
- Read the following four statements:
Statement A: Exactly one of these statements is false.
Statement B: Exactly two of these statements are false.
Statement C: Exactly three of these statements are false.
Statement D: Exactly four of these statements are false.
Which one of these statements is true?
A) Statements A B) Statement B C) Statement C D) Statement D
- How many of the first 1000 natural numbers have a 3 as one of their digits? For example, 3, 23, and 383 all have a 3, while 5, 17, and 562 do not.
A) 100 B) 190 C) 271 D) 333
- A post office has only 2 types of stamps, 5 cent stamps and 8 cent stamps. Some postage amounts are possible to get exactly (EX: 34 cents can be created with two 5-cent stamps and three 8-cent stamps), but other amounts are impossible (EX: 22 cents cannot be done). What is the largest amount of postage that is impossible to create exactly using only 5- and 8-cent stamps?
A) 22 cents B) 27 cents C) 33 cents D) 39 cents
- If a marathon is 26.2 miles long, how many inches are in a marathon?
A) 138,336 in B) 1,660,032 in C) 1,829,808 in D) 4,150,080 in
- Tom is painting a room in his house that is 50 feet by 35 feet by 12 feet. Each gallon of paint covers 250 square feet, and the store sells paint in 5-gallon containers. How many 5-gallon containers will he need to buy to paint the entire surface area of the room?
A) 4 containers B) 5 containers C) 22 containers D) 23 containers
- Sam and Jenny are walking to school. Sam walks 190 feet due east along Prospect Street, then 86 feet due north to the school. Jenny follows the dashed route across the lawn. To the nearest tenth of a foot, how much less distance does Jenny have to travel?



- A) 67.4 ft B) 88.2 ft C) 132.9 ft D) 208.6 ft

9-10 Team Test 2012: Answer Key

- 1) A
- 2) C
- 3) C
- 4) B
- 5) B
- 6) B
- 7) A
- 8) D
- 9) A
- 10) A
- 11) D
- 12) C
- 13) B
- 14) A
- 15) B
- 16) B
- 17) C