HiSET Missouri Exam Math Section

Section: HiSET Math Exam • **Total Questions:** 10 • **Format:** Verified Q&A

1. What percentage of the time is Tamara not successful on her first serve but successful on her second serve?

> *In tennis, a player has two chances to serve the ball successfully.*
> *Tamara is successful 70% of the time on her first serve.*
> *Tamara is successful 80% of the time on her second serve.*

(A) 5%
(B) 14%
(C) 24%
(D) 50%
(E) 56%

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2. What is the product of these two polynomials?

> *(x - 5)(x^2 - 3x + 6)*

(A) x^3 - 8x² + 21x - 30
(B) x^3 - 8x² - 21x - 30
(C) x^3 - 8x² - 9x - 30
(D) x^3 + 8x² + 21x + 30
(E) x^3 + 8x^2 - 9x + 30

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3. Given F = 9/5C + 32 which of the following expressions represents that temperature in degrees Celsius?

> *A temperature of F degrees Fahrenheit will be converted to C degrees Celsius.*

(A) 5/9(F-32)
(B) 5/9F-32
(C) 9/5(F - 32)
(D) 9/5(F + 32)
(E) 9/5F + 32

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4. Jasmine's pace for a 3-mile race is 1 minute per mile faster than her pace for a 13-mile race. She ran a 3-mile race in 21 minutes. How many minutes will it take her to run a 13-mile race?

(A) 34
(B) 78
(C) 92
(D) 101
(E) 104

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5. Which term is the best classification for quadrilateral ABCD?

> *Quadrilateral ABCD satisfies the following conditions.*
> *Side AB is parallel to side CD.*
> *Side BC is not parallel to side AD.*

(A) Parallelogram
(B) Rectangle
(C) Rhombus
(D) Square
(E) Trapezoid

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6. Which value is closest to the percentage of North Dakota's total area that is covered with water?

(A) 0.02%
(B) 0.43%
(C) 1.70%
(D) 2.40%
(E) 24%

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7. Which of the following expressions is equivalent to: $6x^3 + 7x^2 + 1/x$?

(A) 63 + 72 + 1/x
(B) 63 + 72 + 1
(C) $6x^3 + 7x^2 + 1/x$
(D) $6x^2 + 7x + 1$
(E) $6x^2 + 7x^2 + 1$

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8. A bowl contains 18 pieces of candy: 8 red, 6 orange, and 4 green. Brandon will select 1 piece of candy at random. What is the probability that Brandon will select a green piece?

(A) 2/7
(B) 2/9
(C) 2/11
(D) 1/9
(E) 1/8

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9. Of the 500 female employees included in the table, what is the total number whose highest level of training is Level B?

> *The following table lists the percentages of the highest level of training of employees at a certain company.*

(A) 100
(B) 150
(C) 200
(D) 250

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10. The following is a list of triangles: I. Right triangles, II. Isosceles triangles, III. Equilateral triangles. A pair of triangles from which of these groups must be similar to each other?

(A) I only
(B) II only
(C) III only
(D) I and III only