1 ***What formula can you use to solve $x^2+3x+7=0$?***

A The midpoint formula
B The quadratic formula
C The distance formula
D The slope formula

Source: Algebra 2, McDougal Littel. p 231

2 ***What type of angle has a measure greater than 90 degrees but less than 180 degrees?***

A Obtuse
B Right
C Total
D Acute

Source: http://library.thinkquest.org/2647/geometry/measure/measure.htm

3 ***What is the formula for the circumference of a circle?***

A $2\pi d$
B πr^2
C πd
D 2π

Source: http://library.thinkquest.org/2647/geometry/measure/measure.htm

4 ***If a triangle has an angle that is 45 degrees and a 2nd angle that is 90 degrees, what is the measure of the 3rd angle?***

A 90 degrees
B 45 degrees
C 60 degrees
D 80 degrees

Source: Math On Call, Houghton Mifflin, p. 351

5 ***A square has one side that is six inches in length. What is the area of that square?***

A 36 inches
B 36 square inches
C 24 inches
D 32 square inches

Source: Math On Call, Houghton Mifflin, p. 346

6 ***What is the sum of 57 and 138, estimated to the nearest hundred?***

A 200
B 250
C 300
D 350

Source: Math On Call, Houghton Mifflin, p.10

7 ***Which of the following is a prime number?***

A 19
B 18
C 15
D 12

Source: http://216.247.77.187/algebra/prime_list.html

8 ***Which one of the following is a factor of 28?***

A 56
B 3
C 7
D 27

Source: Math On Call, Houghton Mifflin, p. 56

9 ***What is the absolute value of -97?***

A -97 **B** 97

C 197 **D** 19

Source: Math On Call, Houghton Mifflin, p. 51

10 ***What is 3.4679 rounded to the nearest tenth?***

A 3.45 **B** 3.468

C 3.5 **D** 3.4

Source: Math On Call, Houghton Mifflin, p. 10

11 ***The fraction 4/3 is equal to which of the following?***

A 1.333 ... **B** 2

C 2.333 ... **D** 1.3

Source: Math On Call, Houghton Mifflin, p. 30

12 ***What is the solution to 2x+4=8?***

A 2 **B** 4

C 8 **D** 6

Source: Algebra and Trigonometry, Addison Wesley

13 ***What is the smallest number listed below?***

A 3/8 **B** 2/4

C 7/16 **D** 17/32

Source: Algebra and Trigonometry, Addison Wesley

14 ***If you multiply a real number by its inverse, the answer will always equal:***

A 0 **B** 1

C 10 **D** 27.9

Source: Algebra and Trigonometry, Addison Wesley

15 ***According to the distributive property, a(b + c) is the same as:***

A 2ab **B** 2a + 2b

C ab + ac **D** ab - ac

Source: Algebra and Trigonometry, Addison Wesley

16 ***According to the addition property of equality, if a = b, then a + c will equal:***

A a + b **B** a - c

C b + c **D** c - b

Source: Algebra and Trigonometry, Addison Wesley

17 ***If a x b = 0, then which statement must be true?***

A a is greater than b

B a is a positive number

C Either a or b must equal 0

D Either a or b must equal 1

Source: Algebra and Trigonometry, Addison Wesley

18 ***The sum of two consecutive integers equals 35. How do you express this as an equation?***

A a+ b = 35

B a x b = 35

C a + (a+1) = 35

D a x 1 = 35

Source: Algebra and Trigonometry, Addison Wesley

19 ***If 6x - 2 = 16, then what does x equal?***

A 3

B 4

C 5

D 6

Source: Algebra and Trigonometry, Addison Wesley

20 ***How many degrees are there in a right angle?***

A 10 degrees

B 45 degrees

C 90 degrees

D 180 degrees

Source: Algebra and Trigonometry, Addison Wesley

21 ***If a basketball announcer declares that Magic Johnson did "a 180" on a driving lay-up, what has Magic done?***

A Spun completely around

B Spun 3/4 of the way around

C Spun half way around

D Missed the lay-up

Source: Algebra and Trigonometry, Addison Wesley

22 ***How many degrees are there in a semicircle?***

A 90 degrees

B 180 degrees

C 212 degrees

D 360 degrees

Source: Algebra and Trigonometry, Addison Wesley

23 ***What type of triangle has two sides of equal length?***

A A trapezoid

B An isosceles triangle

C A similar triangle

D An obtuse triangle

Source: http://library.thinkquest.org/2647/geometry/measure/measure.htm

24 ***If Rose walked three miles per hour for three hours, how far did she walk?***

A 9 miles

B 18 miles

C 3 miles

D 6 miles

Source: http://www.stfx.ca/special/mathproblems/grade9.html

25 ***If a rectangle has a length of 7 units and a width of 5 units, what is its perimeter?***

A 35 square units **B** 12 units

C 7 square units **D** 24 units

Source: Geometry, Prentice Hall, p. 244

26 ***Which of the numbers below is greater than .716?***

A .709 **B** .71

C .7 **D** .721

Source: Math On Call, Houghton Mifflin, p. 20

27 ***3/5 can also be written as what percent?***

A 20% **B** 40%

C 60% **D** 80%

Source: Algebra and Trigonometry, Addison Wesley

28 ***What is 125% of 40?***

A 32.34 **B** 40.25

C 44.60 **D** 50

Source: Algebra and Trigonometry, Addison Wesley

29 ***What is the least common denominator of the fractions 1/3, 2/5, 4/9, 8/15?***

A 15 **B** 35

C 45 **D** 60

Source: Algebra and Trigonometry, Addison Wesley

30 ***In the fraction 3/4, what is the 4 called?***

A The numerator **B** The denominator

C The quotient **D** The integer

Source: Algebra and Trigonometry, Addison Wesley

31 ***What does 2^4 equal?***

A 4 **B** 2

C 16 **D** 8

Source: http://testprep.embark.com/sat/freeinfo/sat_sample_questions.asp

32 ***What is the cube root of 64?***

A 192 **B** 16

C 2 **D** 4

Source: http://testprep.embark.com/sat/freeinfo/sat_sample_questions.asp

33 ***Two or more coplanar lines that have no points in common are called what?***

A Perpendicular lines **B** Similar lines

C Parallel lines **D** Intersecting lines

Source: http://library.thinkquest.org/2647/geometry/measure/measure.htm

34 ***What is the next number in the sequence: 1 2 4 7 11 .... ?***

A 15 **B** 14

C 16 **D** 18

Source: Algebra 2, McDougal Littell, p. 659

35 ***A line whose slope is zero is called a:***

A Perpendicular line **B** Parallel line

C Horizontal line **D** Vertical line

Source: http://library.thinkquest.org/2647/geometry/measure/measure.htm

36 ***$ax^2 + bx + c=0$ is an example of which type of equation?***

A Simple equation **B** Quadratic equation

C Multiple equation **D** Linear equation

Source: Algebra To Go, Houghton Mifflin, p. 142

37 ***1,000,000 is 10 to what power?***

A 2nd **B** 3rd

C 6th **D** 10th

Source: Algebra and Trigonometry, Addison Wesley

38 ***The graph of any linear equation is:***

A A parabola **B** An s-curve

C A straight line **D** A circle

Source: Algebra and Trigonometry, Addison Wesley

39 ***What is the square root of 121?***

A 21 **B** 11

C 11 or -11 **D** -11

Source: Algebra and Trigonometry, Addison Wesley

40 ***Which one of the following is an imaginary number?***

A Pi **B** The square root of 14

C The cube root of 27 **D** The square root of -47

Source: Algebra and Trigonometry, Addison Wesley

41 ***What is the only number to have only one square root?***

A -1 **B** 0

C 1 **D** 2

Source: Algebra and Trigonometry, Addison Wesley

42 ***What ancient Greek is considered to be the father of geometry?***

A Plato **B** Euclid

C Sophocles **D** Homer

Source: Algebra and Trigonometry, Addison Wesley

43 ***What is the simplified form of $3y + 5x - 4x + 2y$?***

A 7y +7x **B** -x + 7y

C x +5y **D** 6xy

Source: Study Guide, Algebra Section

44 ***What is the name of an equality statement of 2 ratios (for example, 1/2 = 4/8)?***

A Rational expression **B** Inequality

C Random sample **D** Proportion

Source: Math On Call, Houghton Mifflin, p. 429

45 ***If set A=(a, e, f, o, u) and set B=(k, f, j), what is the union of sets A and B?***

A (h, f, j) **B** (a, e, f, o, u, k, j)

C (f) **D** (a, f, u)

Source: Math On Call, Houghton Mifflin, p.543

46 ***Express 25,900 in scientific notation.***

A 259×10^2 **B** 2.59×10^4

C 26,000 **D** 259×10^4

Source: Algebra 1, McGraw-Hill, p.506

47 ***Points that lie on the same line are:***

A Equidistant **B** A line segment

C A graph **D** Collinear

Source: Geometry, Prentice Hall, p.13

48 ***The $\sqrt{6}$ is between what two whole numbers?***

A 5 and 7 **B** 2 and 3

C 3 and 4 **D** 4 and 9

Source: Algebra 1, McDougal Littel, p.524

49 ***In which quadrant of the coordinate plane is the ordered pair (-4, 2)?***

A I **B** II

C III **D** IV

Source: Algebra 1, McGraw-Hill, p.254

50 ***Which of the following is not a statistical graph?***

A Box-and-whisker plot **B** Bar graph

C Sine curve **D** Circle graph

Source: Algebra 2, McDougal Littell, p.447

51 ***Find the product (x+1)(2x-1).***

A $3x$ **B** $2x^2 + x - 1$

C $3x^2 - 1$ **D** $2x^2 - 1$

Source: Algebra 1, McGraw-Hill, p.537

52 ***If a six sided die is tossed, what is the probability of <u>not</u> tossing a 6?***

A 0 **B** 3/6

C 5/6 **D** 1/6

Source: Algebra 2, McDougal Littell, p.726

53 ***In statistics, what is a smooth, symmetrical, bell shaped curve called?***

A Elliptical curve **B** Normal curve

C Parabolic curve **D** Sine curve

Source: Algebra 2, McDougal Littell, p.746

54 ***What is the domain of the set of ordered pairs (-1,3), (0,-2), and (4,2)?***

A 3, -2, 2 **B** 2, -2, 2

C -1, 0, 4 **D** 3,3

Source: Algebra 1, McGraw-Hill, p.26

55 ***The quadratic formula is used to solve equations whose graphs are:***

A Circles **B** Lines

C Hyperbolas **D** Parabolas

Source: Algebra 1, McGraw-Hill, p.610

56 ***What is the excluded value for the expression (4x - 1) / (x + 3) ?***

A x = -3 **B** x = 3 or x = -3

C x = 1/4 **D** None

Source: Algebra 1, McGraw-Hill, p.660

57 ***What is a simpler form of $(X^3)^6$=***

A x^9 **B** $6x^3$

C x^6 **D** x^{18}

Source: Study Guide, Algebra 1 Section

58 ***What tool is used to measure an angle?***

A Ruler **B** Watch

C Protractor **D** Compass

Source: Math On Call, Houghton Mifflin, p.328

59 ***The range of the set of data 1, 6, 4, 9, 8, 2 is:***

A 5 **B** 10

C 8 **D** 9

Source: Algebra 1, McGraw-Hill, p.306

60 ***If the letters of the word probability are randomly chosen, what is the probability of choosing an "i" ?***

A 100% **B** 2/11

C 50% **D** 11/2

Source: Algebra 1, McGraw-Hill, p.228

61 ***If two angles are both congruent and supplementary, then what kind of angles are they?***

A Obtuse **B** Acute

C Right **D** Isosceles

Source: Geometry, Prentice Hall, p.195

62 ***Two lines with the same slope are:***

A Congruent **B** Vertical

C Parallel **D** Perpendicular

Source: Geometry, Prentice Hall, p.85

63 ***What is the complement of a 60 degree angle?***

A 60 degrees **B** 30 degrees

C 120 degrees **D** A nice statement

Source: Geometry, Prentice Hall, p.48

64 ***What is the mean for the set of data 2, 5, 7, 2, 4 ?***

A 7 **B** 2

C 1 **D** 4

Source: Algebra 1, McGraw-Hill, p.178

65 ***What is the midpoint of a segment connecting (2, 3) to (4, 5) ?***

A (5, 6) **B** (3, 2)

C (4, 7.5) **D** (3, 4)

Source: Study Guide, Algebra 2 Section

66 ***What is the range of probabilities of any event?***

A Between 0 and 100 **B** Between 0 and 1

C Between 1 and 100 **D** Between 0 and infinity

Source: Algebra 2, McDougal Littell, p.716

67 ***What is the area of a triangle that has a height of 2 units and a base of 6 units?***

A 3 square units **B** 3 units

C 6 square units **D** 3/2 square units

Source: Algebra 1, McGraw-Hill, p.24

68 ***The slope of a line is defined as:***

A Steep **B** Run/Rise

C Horizontal change/Vertical change **D** Vertical change/ Horizontal change

Source: Algebra 1, McGraw-Hill, p.325

69 ***What kind of line has an undefined slope?***

A Vertical **B** Curved

C Straight **D** Horizontal

Source: Algebra To Go, Houghton Mifflin, p.160

70 ***The "FOIL" method would be used to find which of the following products?***

A $(x - 4)(2x + 3)$ **B** $5(2x - 1)(x)$

C $(x - 4)(2x^2 + x - 1)$ **D** $3x^2y(2x^5y^4)$

Source: Algebra 1, McGraw-Hill, p.537

71 ***Complete: The sum of the lengths of the two shorter sides of a triangle is _____ the length of the third side.***

A Greater than **B** Less than

C Equal to **D** Less than or equal to

Source: Geometry, Prentice Hall, p.214

72 ***Which quadrilateral cannot contain 4 right angles?***

A A trapezoid **B** A rectangle

C A parallelogram **D** A rhombus

Source: Geometry, Prentice Hall, p.239

73 ***If two parallel lines are cut by a transversal, then which angles are <u>not</u> congruent?***

A Alternate interior **B** Vertical

C Corresponding **D** Same-side interior

Source: Geometry, Prentice Hall, p.364

74 ***Complete: _____ means that you make a prediction by extending a graph beyond the range of data you already have.***

A Interpolation **B** Completing the square

C Extrapolation **D** Rationalizing the denominator

Source: Math On Call, Houghton Mifflin, p.311

75 ***What is the next number in the sequence 5, -15, 45, ?***

A 90 **B** 135

C -135 **D** -90

Source: Study Guide, Algebra 2 section

76 ***Which of these is NOT an approximation for pi?***

A 22/7 **B** $\sqrt{2}$

C 3.14 **D** Circumference/diameter

Source: Geometry, Prentice Hall, p.279

77 ***With which unit would you measure temperature?***

A Meter **B** Liter

C Kilogram **D** Degrees Celsius

Source: Algebra 2, McDougal Littell, p.962

78 ***In a circle with radius r, diameter d and circumference C, how is pi found?***

A $2\pi r$ **B** d/C

C C/d **D** r/d

Source: Math On Call, Houghton Mifflin, p.373

79 ***Which statement is true?***

A $-2 - 1 > -2(-1)$ **B** $-2 - 1 < -2(-1)$

C $-2 - 1 = -2(-1)$ **D** $-2 - 1 \geq -2(-1)$

Source: Algebra 1, McGraw-Hill, p.139

80 ***Name the following sequence of numbers: 1 1 2 3 5 8 13 ....***

A Factorial **B** Arithmetic

C Fibonacci **D** Power

Source: Algebra 2, McDougal Littell, p.687

81 ***A rhombus can never be a:***

A Rectangle **B** Square

C Parallelogram **D** Circle

Source: Geometry, Prentice Hall, p.92

82 ***An angle is formed by two:***

A Degrees **B** Segments

C Lines **D** Rays

Source: Geometry, Prentice Hall, p.26

83 ***In geometry, an accepted statement of truth is called a:***

A Postulate **B** Proof

C Theorem **D** Formula

Source: Geometry, Prentice Hall, p.14

84 ***Name the side opposite the right angle in a right triangle.***

A Hypothesis **B** Hypotenuse

C Leg **D** Hippopotamus

Source: Geometry, Prentice Hall, p.256

85 ***Evaluate 4 factorial (4!).***

A $4^2 = 16$ **B** (4)(3)(2)(1) = 24

C Excited 4 **D** 1/4

Source: Algebra 2, McDougal Littell, p.681

86 ***What is the slope of the line that passes through the points (2,5) and (4,6)?***

A 2 **B** 6/11

C 11/6 **D** 1/2

Source: Algebra 1, McGraw-Hill, p.326

87 ***To subtract an integer, add its:***

A Positive **B** Reciprocal

C Opposite **D** Prime

Source: Math On Call, Houghton Mifflin, p.136

88 ***The number 1 is:***

A Prime **B** Composite

C Neither prime nor composite **D** Irrational

Source: Math On Call, Houghton Mifflin, p.59

89 ***What is the solution of -2x < 4***

A x = 2 **B** x < 2

C x <-2 **D** x > -2

Source: Algebra To Go, Houghton Mifflin, p.196

90 ***In the phrase, "Two-thirds of 12 is 8," what math operation does the word "of" stand for?***

A Addition **B** Multiplication

C Ratio **D** Division

Source: Algebra To Go, Houghton Mifflin, p.89

91 ***What is the name of a line segment with both direction and magnitude?***

A Vector **B** Matrix

C Tangent **D** Diameter

Source: Trigonometry, Harcourt Brace, p.188

92 ***Which of the following would be the best unit to measure the mass of a person?***

A Milligram **B** Gram

C Kilogram **D** Metric ton

Source: Algebra To Go, Houghton Mifflin, p.762

93 ***In the graph of y = 3x + 2 , what is the y-intercept?***

A 2 **B** 3

C 2/3 **D** 1/2

Source: Algebra 1, McGraw-Hill, p.347

94 ***If x = -1, then what is $2x^3 - 3x^2 + 1$?***

A -4 **B** 4

C 2 **D** 1

Source: Algebra 1, McGraw-Hill, p.55

95 ***What are arrangements of things in a definite order?***

A Permutations **B** Combinations

C Logarithms **D** Palindromes

Source: Algebra 2, McDougal Littell, p.708

96 ***Complete: An equilateral triangle is _____ a right triangle.***

A Always **B** Sometimes

C Never **D** Rarely

Source: Algebra To Go, Houghton Mifflin, p.244

97 ***Complete: The lateral faces of a prism are _____ rectangles.***

A Always **B** Sometimes

C Never **D** Rarely

Source: Geometry, Prentice Hall, p.316

98 ***Assuming there are no ties, in how many different ways can 3 runners finish a race?***

A 3 **B** 9

C 6 **D** 1

Source: Algebra 2, McDougal Littell, p.703

99 ***Name the diagram that shows relationships among sets of objects.***

A Venn **B** Polygon

C Intersection **D** Pythagorean

Source: Algebra To Go, Houghton Mifflin, p.363

100 ***The sum of the measures of the angles of a rectangle is the same as the number of degrees in a:***

A Circle **B** Semicircle

C Polyhedron **D** Pentagon

Source: Geometry, Prentice Hall, p.97

101 ***A function is a set of ordered pairs of numbers, x and y, such that for every:***

A x, there are many y's **B** y, there are no x's

C y, there is exactly one x **D** x, there is exactly one y

Source: Algebra 1, McGraw-Hill, p.287

102 ***What does 7^0 (7 to the zero power) equal?***

A 0 **B** 7

C 1 **D** Undefined

Source: Algebra 1, McGraw-Hill, p.502

103 ***Which of the following is an algebraic expression that represents "eight decreased by the product of x and 2"?***

A (x + 2) - 8 **B** 2x - 8

C -16x **D** 8 - 2x

Source: Algebra 1, McGraw-Hill, p.139

104 ***In the ordered pair (2,3), the 2 is the:***

A Ordinate **B** X-coordinate

C Y-coordinate **D** 1st quadrant

Source: Algebra 1, McGraw-Hill, p.254

105 ***The graph of an exponential function is always a:***

A Line **B** Circle

C Curve **D** Parabola

Source: Algebra 1, McGraw-Hill, p.634

106 ***Which of these expressions is a trinomial?***

A $4x^2 - 3x + 2$ **B** $2x^4y^2$

C $2x - 1$ **D** x^2y^2

Source: Algebra 1, McGraw-Hill, p.514

107 ***Which of the following is an algebraic expression for "three less than the sum of four and a number n"?***

A $(4 + n) - 3$ **B** $3 - 4n$

C $3 - (4 + n)$ **D** $4n - 3$

Source: Algebra 1, McGraw-Hill, p.7

108 ***Is the graph of a circle a function?***

A Always **B** Sometimes

C Never **D** Rarely

Source: Algebra 1, McGraw-Hill, p.289

109 ***The number $x + 6$ is how much greater than $x - 2$?***

A 4 **B** $x - 8$

C 8 **D** $x + 4$

Source: Algebra 1, McGraw-Hill, p.277

110 ***What is the factored form of $a^2 - b^2$?***

A $a^2 + 2ab + b^2$ **B** $(a + b)(a - b)$

C $a^2 + 2ab - b^2$ **D** $(a - b)(a - b)$

Source: Algebra 1, McGraw-Hill, p.582

111 ***What tool is used to draw a circle?***

A Compass **B** Protractor

C Straightedge **D** Gear

Source: Geometry, Prentice Hall, p.39

112 ***In geometry, what is a net?***

A A pattern for a 3-D figure **B** Something to catch fish

C A proof **D** Something to surf

Source: Geometry, Prentice Hall, p.302

113 ***In transformational geometry, a flip is also known as a:***

A Reflection **B** Turn

C Slide **D** Fractal

Source: Geometry, Prentice Hall, p.125

114 ***What is the prime factorization of 36?***

A 2(18) **B** $2^2(3^2)$

C 6^2 **D** 2(2)(9)

Source: Algebra 1, McGraw-Hill, p.558

115 ***Solve (2/5)x = -10 .***

A x = -4 **B** x = -25

C x = 4 **D** x = -10

Source: Algebra 1, McGraw-Hill, p.153

116 ***If 9/x = 3/4, what does x equal?***

A 10 **B** 11

C 108 **D** 12

Source: Geometry, Prentice Hall, p.497

117 ***What is the factored form of the trinomial $b^2 + 7b + 12$?***

A (b + 6)(b + 1) **B** $7(12)b(b^2)$

C (b + 3)(b + 4) **D** $(b + 7)^2$

Source: Algebra 1, McGraw-Hill, p.574

118 ***Simplify $7a^6/a^4$.***

A $6a^2$ **B** $7a^6a^4$

C $7a^{24}$ **D** $7a^2$

Source: Algebra 1, McGraw-Hill, p.501

119 ***The graphs of the equations y = (2/3)x - 1 and y = (-3/2)x - 1 are:***

A Parallel **B** Perpendicular

C Parallel & perpendicular **D** Oblique

Source: Algebra 1, McGraw-Hill, p.365

120 ***Which ordered pair is the center of the circle whose equation is $(x + 7)^2 + (y - 5)^2 = 16$?***

A (-7,5) **B** (7,-5)

C (4,4) **D** Not enough information

Source: Geometry, Prentice Hall, p.586

121 ***What kind of variation do the x and y in the equation x = 3/y show?***

A Inverse **B** Parallel

C Direct **D** Joint

Source: Algebra 2, McDougal Littell, p.536

122 ***Which of the following is NOT a conic section?***

A Ellipse **B** Circle

C Parabola **D** Line

Source: Algebra 2, McDougal Littell, p.622

123 ***What is the length of the hypotenuse of a right triangle with legs of 6 cm and 8 cm?***

A 9 cm **B** 100 cm

C 196 cm **D** 10 cm

Source: Geometry, Prentice Hall, p.257

124 ***What is the volume of a rectangular prism with dimensions 3 cm by 5 cm by 1 cm?***

A Not enough information **B** $15\ cm^3$

C $9\ cm^3$ **D** $15\ cm^2$

Source: Geometry, Prentice Hall, p.324

125 ***What is the factored form of $2x^2 + 10x$?***

A $2(x^2 + 5)$ **B** $2x(x + 5)$

C $2x^2(1 + 5x)$ **D** $12x^2$

Source: Algebra 2, McDougal Littell, p.257

126 ***A number is divisible by 6 if it is:***

A Prime **B** Divisible by 2 & by 3

C Even **D** A factor of 6

Source: Math On Call, Houghton Mifflin, p.69

127 ***How many diagonals does a pentagon have?***

A 6 **B** Infinite number

C 5 **D** 0

Source: Algebra 1, McGraw-Hill, p.13

128 ***What is a triangle that has an angle that measures between 90 degrees and 180 degrees called?***

A Isosceles **B** Scalene

C Acute **D** Obtuse

Source: Geometry, Prentice Hall, p.71

129 ***If two planes intersect, they intersect in a:***

A Point **B** Plane

C Line segment **D** Line

Source: Geometry, Prentice Hall, p.14

130 ***Which of these relates the number of faces, vertices and edges of any polyhedron (geometric solid)?***

A Dimensional analysis **B** Euler's formula

C Volume formula **D** Goldbach's conjecture

Source: Geometry, Prentice Hall, p.303

131 ***In what kind of units is area measured?***

A Metric **B** Square

C Linear **D** Cubic

Source: Geometry, Prentice Hall, p.324

132 ***Which of the following can NOT be the perimeter of an equilateral triangle with integer side lengths?***

A 24 m **B** 16 m

C 9 m **D** 12 m

Source: Geometry, Prentice Hall, p.299

133 ***In plane geometry, vertical angles are:***

A Adjacent **B** Inscribed

C Congruent **D** Tangent

Source: Geometry, Prentice Hall, p.48

134 ***Which of the following is NOT a figurate number?***

A Triangular **B** Square

C Pentagonal **D** Variable

Source: Algebra 2, McDougal Littell, p.380

135 ***What is another word for "tiling"?***

A Fractal **B** Matching

C Transforming **D** Tessellating

Source: Geometry, Prentice Hall, p.159

136 ***What is the multiplicative inverse of -5/7 ?***

A 7/5 **B** -2 2/7

C 5/7 **D** -7/5

Source: Algebra 1, McGraw-Hill, p.39

137 ***How many different outfits can be made with 3 colors of pants, 4 colors of shirts and 2 kinds of shoes?***

A 24 **B** As many as you want

C 3 **D** 9

Source: Algebra 2, McDougal Littell, p.701

138 ***If the area of a parallelogram is 24 cm^2 and its height is 6 cm, what is the length of its base?***

A 144 cm **B** 15 cm

C 18 cm **D** 4 cm

Source: Geometry, Prentice Hall, p.252

139 ***What kind of number is the square root of 2?***

A Complex **B** Irrational

C Rational **D** Imaginary

Source: Algebra 1, McGraw-Hill, p.120

140 ***If the perimeter of a rectangle is 10 units and its area is 6 square units, what are its dimensions?***

A 1 by 6 units **B** 2 by 3 units

C 2 by 5 units **D** 6 by 10 units

Source: Geometry, Prentice Hall, p.244

141 ***What is the fourth root of 16?***

A 2 **B** 4 and -4

C 4 **D** 2 and -2

Source: Algebra 2, McDougal Littell, p.401

142 ***Complete: A fraction with a numerator of 1 is a/an _____ fraction.***

A Improper **B** Prime

C Decimal **D** Unit

Source: Math On Call, Houghton Mifflin, p.595

143 ***What is the area of a circle with a radius of 5 cm?***

A 5π cm **B** 25π cm

C 10π cm **D** 25π cm^2

Source: Geometry, Prentice Hall, p.279

144 ***In a regular polygon, which of the following are congruent?***

A The areas **B** The volumes

C The perimeters **D** The angles

Source: Geometry, Prentice Hall, p.78

145 ***What kind of symmetry does the letter "A" have?***

A Rotational **B** Translational

C Line **D** Point

Source: Geometry, Prentice Hall, p.157

146 ***Complete: An irrational number can _____ be represented by a ratio of two integers.***

A Always **B** Sometimes

C Never **D** Rarely

Source: Math On Call, Houghton Mifflin, p. 52

147 ***Zero is not a member of which number set?***

A Integers **B** Natural numbers

C Rational numbers **D** Whole numbers

Source: Algebra 1, McGraw-Hill, p.73

148 ***In a scalene triangle, how many sides are congruent?***

A 2 **B** 3

C 4 **D** 0

Source: Math On Call, Houghton Mifflin, p.352

149 ***A scalene triangle cannot be:***

A Right **B** Obtuse

C Isosceles **D** Acute

Source: Math On Call, Houghton Mifflin, p.353

150 ***Complete: If 2 lines are cut by a transversal, the _____ angles are on opposite sides of the transversal and on the inside of the lines it intersects.***

A Corresponding **B** Alternate interior

C Alternate exterior **D** Vertical

Source: Math on Call, Houghton Mifflin, p.338

151 ***Which sequence below represents the powers of 2?***

A 2 4 6 8 10 ... **B** 1 2 4 6 8 ...

C 1 2 4 8 16 ... **D** 1

Source: Algebra 1, McGraw-Hill, p.497

152 ***What is the name of the segment from a vertex of a triangle to the midpoint of the opposite side?***

A Perpendicular bisector **B** Diameter

C Altitude **D** Median

Source: Geometry, Prentice Hall, p.229

153 ***Which one of the following is NOT a Platonic solid?***

A Octahedron **B** Cube

C Sphere **D** Tetrahedron

Source: Geometry, Prentice Hall, p. 305

154 ***What is the coefficient of the expression $6a^2b^5c$?***

A 6 **B** 13

C abc **D** 60

Source: Algebra 1, McGraw-Hill, p.47

155 ***Simplify $\sqrt{18}$.***

A 9 **B** $3\sqrt{2}$

C $9\sqrt{2}$ **D** None of these

Source: Algebra 1, McGraw-Hill, p.719

156 ***Which of the following sets of numbers is a Pythagorean triple?***

A 3,4,5 **B** 1,4,9

C 3,6,9 **D** 1,8,27

Source: Algebra 1, McGraw-Hill, p.583

157 ***Evaluate -12 - (-8) .***

A -96 **B** -4

C 4 **D** -20

Source: Algebra 1, McGraw-Hill, p.88

158 ***A fractal is a geometric figure that is:***

A Congruent **B** Isometric

C Self-similar **D** Corresponding

Source: Geometry, Prentice Hall, p.106

159 ***How does a 100% increase compare to the original amount?***

A Twice the original amount **B** 1 1/2 times the original amount

C 4 times the original amount **D** The same as the original amount

Source: Math On Call, Houghton Mifflin, p.447

160 ***How does the volume of a cone compare to the volume of a cylinder with the same base and height?***

A The same as **B** 1/2 as much as

C 1/3 as much as **D** Twice as much as

Source: Geometry, Prentice Hall, p.332

161 ***Simplify $(2x^4)^3$.***

A $8x^{12}$ **B** $6x^{12}$

C $2x^7$ **D** $8x^7$

Source: Algebra 1, McGraw-Hill, p.498

162 ***What is the expanded form of $(x + 4)^2$?***

A $x^2 + 8$ **B** $x^2 + 16$

C $x^2 + 4x + 16$ **D** $x^2 + 8x + 16$

Source: Algebra 2, McDougal Littel, p. 113

163 ***Complete: reciprocal numbers multiply to equal ____***

A 0 **B** 1

C -1 **D** 10

Source: Algebra 1, McDougal Littel

164 ***Complete: The faces of a polyhedron are _____ polygons.***

A Always **B** Sometimes

C Never **D** Rarely

Source: Math On Call, Houghton Mifflin, p.394

165 ***What is another word for the "corners" of a solid figure?***

A Faces **B** Vertices

C Axes **D** Edges

Source: Math On Call, Houghton Mifflin, p.393

166 ***In a fraction, what operation does the fraction bar indicate?***

A Addition **B** Subtraction

C Division **D** Multiplication

Source: Algebra 1, McGraw-Hill, p.113

167 ***Evaluate: 3/4 ÷ 3/8 .***

A 32/9 **B** 2

C 1/2 **D** 9/32

Source: Algebra To Go, Houghton Mifflin, p.90

168 ***If a triangle is a right triangle, then the two smaller angles are what?***

A Congruent **B** Complementary

C Obtuse **D** Right

Source: Geometry, Prentice Hall, p.195

169 ***A square is _____ a parallelogram.***

A Always **B** Sometimes

C Never **D** Rarely

Source: Geometry, Prentice Hall, p.91

170 ***What is the surface area of a cube whose edges each have a length of 1 meter?***

A $6m^2$ **B** $1m^2$

C $4m^2$ **D** Not enough information

Source: Geometry, Prentice Hall, p.309

171 ***2 + 4 · 5 - 7 =***

A 15 **B** 33

C 23 **D** -23

Source: Algebra 1 McDougal Littel, p.17

172 ***How many faces does a icosahedron have?***

A 10 **B** 6

C 20 **D** 12

Source: Geometry, Prentice Hall, p.76

173 ***Who is the father of the most well known theorem dealing with right triangles?***

A Eratosthenes **B** Archimedes

C Descartes **D** Pythagoras

Source: Geometry, Prentice Hall, p.259

174 ***Complete: A polyhedron is a _____-dimensional figure with faces that are polygons.***

A 1 **B** 2

C 3 **D** 4

Source: Math On Call, Houghton Mifflin, p.394

175 ***How many and what type of faces does an octahedron have?***

A 6 squares **B** 3 equilateral triangles

C 8 equilateral triangles **D** 4 squares

Source: Geometry, Prentice Hall, p.303

176 ***What type of reasoning enables you to reach conclusions based on a pattern of specific examples?***

A Inductive **B** Deductive

C Postulate **D** Proof

Source: Geometry, Prentice Hall, p.5

177 ***In trigonometry, angles can be measured in degrees or in:***

A Square units **B** Centimeters

C Radians **D** Arcs

Source: Algebra 2, McDougal Littell, p.777

178 ***Simplify*** $(4x^5)(x^3)$.

A $5x^8$ **B** $4x^{15}$

C $4x^8$ **D** $5x^{15}$

Source: Algebra 1, McGraw-Hill, p.497

179 ***Corresponding sides of similar polygons are:***

A Perpendicular **B** Equivalent

C Congruent **D** Proportional

Source: Algebra To Go, Houghton Mifflin, p.259

180 ***In the graph of*** $y = 2x + 3$ ***, what is the slope?***

A 2 **B** 3

C 2/3 **D** 1/2

Source: Algebra 1, McGraw-Hill, p.347

181 ***What are the finite differences of the sequence 1 3 5 7 9 ... ?***

A 2 2 2 2 ... **B** The odd numbers

C 2n - 1 **D** 1

Source: Algebra 2, McDougal Littell, p.379

182 ***What is the next term in the sequence 3 6 12 24 ... ?***

A 30 **B** 48

C 12 **D** 36

Source: Algebra 1, McGraw-Hill, p.13

183 ***What is the expanded form of*** $2x(3x^2 + 5)$

A $6x^3 + 5$ **B** $6x^3 + 10x$

C $6x^2 + 10x$ **D** $2x + 3x^2 + 5$

Source: Algebra 1, McDougal Littel, p. 104

184 ***What is the log of 32 to the base 2?***

A 32 **B** 2

C 5 **D** 10

Source: Algebra 2, McDougal Littell, p.486

185 ***Assuming you have an equally likely chance of choosing any integer from 1 through 20, what is the probability of choosing a perfect square?***

A 4/20 **B** 1/4

C 0 **D** 4/10

Source: Algebra 2, McDougal Littell, p.719

186 ***Simplify the expression*** $3x^2 + 2x + x + 2x^2$.

A $8x^3$ **B** $5x^2 + 3x$

C $8x^6$ **D** $6x^2 + 2x$

Source: Algebra 1, McGraw-Hill, p.48

187 ***Which of the following is NOT a palindrome?***

A radar **B** 1234

C 12321 **D** 66

Source: Critical Thinking Skills, Frank Staffer, p.1

188 ***Two lines that intersect to form right angles are:***

A Complementary **B** Parallel

C Vertical **D** Perpendicular

Source: Geometry, Prentice Hall, p.33

189 ***Evaluate 10 - 2(3) + 1 .***

A 32 **B** 5

C 3 **D** 25

Source: Algebra 1, McGraw-Hill, p.19

190 ***What is the name of a fraction that contains a fraction in its numerator or denominator?***

A Logarithmic fraction **B** Rational fraction

C Complex fraction **D** Simplified fraction

Source: Algebra 2, McDougal Littell, p.564

191 ***Who, at the age of 10, mentally added the numbers from 1 to 100 almost immediately?***

A Leonard Euler **B** Karl Friedrich Gauss

C Fibonacci **D** John Napier

Source: Algebra 2, McDougal Littell, p.661

192 ***What Hindu-Arabic number is the Roman numeral CXIV?***

A 64 **B** 44

C 66 **D** 114

Source: Math On Call, Houghton Mifflin, p.554

193 ***Complete: In algebra, a relation is _____ a function.***

A Always **B** Sometimes

C Never **D** Correspondingly

Source: Math On Call, Houghton Mifflin, p.234

194 ***A square and a rectangle have the same area. If the rectangle is 1 cm by 4 cm, what are the dimensions of the square?***

A 2 cm^2 by 2 cm^2 **B** 8 cm

C 2 cm by 2 cm **D** 1 cm by 4 cm

Source: Geometry, Prentice Hall, p.246

195 ***How many millimeters are in a kilometer?***

A 1,000,000 **B** 1,000

C 10,000 **D** 100

Source: Algebra 2, McDougal Littill, p. 962

196 ***What does -6(-3) equal?***

A -18 **B** 18

C -9 **D** -3

Source: Algebra 1, McGraw-Hill, p.105

197 ***Evaluate*** $\frac{(0.3 + 0.3 + 0.3 + 0.3)}{4}$.

A 0.03 **B** 1

C 1.2 **D** 0.3

Source: Algebra 1, McGraw-Hill, p.43

198 ***How many vertices does a cube have?***

A 1 **B** 4

C 6 **D** 8

Source: Geometry, Prentice Hall, p.305

199 ***Find the number of combinations of 5 things taken 2 at a time.***

A 20 **B** 7

C 25 **D** 10

Source: Algebra 2, McDougal Littel, p. 708

200 ***What is the multiplication of a matrix by a real number called?***

A Linear multiplication **B** Scalar multiplication

C Integer multiplication **D** Logrithmic multiplication

Source: Algebra 2, McDougal Littel, p. 200

201 ***Complete: The sum of a positive integer and a negative integer is _____ negative.***

A Always **B** Sometimes

C Never **D** Positively

Source: Math On Call, Houghton Mifflin, p.108

202 ***The mode for the set of data 2, 5, 1, 2, 4 is***

A 2 **B** 4

C 5 **D** 7

Source: Algebra 1, Mcgraw-Hill, p. 179

203 ***FInd the product of (a + b) (a - b).***

A $a^2 - b^2$ **B** $a^2 + 2ab - b^2$

C $a^2 - 2ab + b^2$ **D** $a^2 - 2ab - b^2$

Source: Algebra 1, Mcgraw-Hill, p. 545

204 ***If 12/3 = x, then 3x + 1 is***

A 13 **B** 3

C 4 **D** 12

Source: Algebra 1, Mcgraw-Hill, p. 50

205 ***Which of the following is NOT a problem-solving strategy?***

A Look for a pattern **B** Draw a diagram

C Guess and check **D** Use the distributive property

Source: Algebra To Go, Houghton Mifflin, p.376

206 ***Which of the following is NOT an application of Pascal's triangle?***

A Binomial theorum **B** Combinations

C Probability **D** Parabolas

Source: Algebra 1, Mcgraw-Hill, p. 710

207 ***What is the midpoint of a line segment with endpoints (-3, 6) and (-5, 9)?***

A (-8, 15) **B** (-4, 7.5)

C -3/2 **D** (2, -3)

Source: Study Guide, Algebra 1 Section

208 ***Name the point (0, 0) in the coordinate grid.***

A Ordinate **B** Abscissa

C Origin **D** Quadrant

Source: Algebra To Go, Houghton Mifflin, p.219

209 ***If the side adjacent to one of the acute angles of a right triangle has length 3, the side opposite that same angle has length 4, and the hypotenuse a length 5, what is the sine of that acute angle?***

A $\frac{\text{adjacent}}{\text{hypotenuse}} = \frac{3}{5}$

B $\frac{\text{opposite}}{\text{adjacent}} = \frac{4}{3}$

C $\frac{\text{opposite}}{\text{hypotenuse}} = \frac{4}{5}$

D $\frac{\text{hypotenuse}}{\text{opposite}} = \frac{4}{5}$

Source: Algebra 2, McDougal Littel, p. 769

210 ***In a subtraction problem, what is the answer called?***

A Difference

B Product

C Minuend

D Subtrahend

Source: Math On Call, Houghton Mifflin, p.115

211 ***Solve $c = 2\pi r$ for r.***

A $r = \frac{2\pi}{c}$

B $r = \frac{c}{2\pi}$

C $r = 2\pi c$

D $r = \frac{2c}{\pi}$

Source: Algebra 2, McDougal Littel, p. 62

212 ***The degree of the polynomial function $f(x) = 2x^3 - x^2 + 4x + 1$ is:***

A 2

B 1

C 6

D 3

Source: Algebra 2, McDougal Littel, p. 329

213 ***The probability of picking a red sphere out of a bag containing 4 blue, 1 yellow, and 3 red spheres is:***

A 3/8

B 5/8

C 8/3

D 1/2

Source: Algebra To Go, Houghton Mifflin, p.322

214 ***If a coin is tossed twice, what is the probability that it will land heads on both tosses?***

A 2

B 1/2 + 1/2 = 1

C 1/2 • 1/2 = 1/4

D 0

Source: Algebra 2, McDougal Littel, p. 730

215 ***In the complex number a + bi , what is i equal to?***

A $i = \sqrt{1}$

B i is any real number

C $i = \sqrt{-1}$

D $i = -1$

Source: Algebra 2, McDougal Littel, p. 272

216 ***Find the value of c that makes $x^2 + 12x + c$ a perfect square trinomial.***

A 24

B $2\sqrt{3}$

C 36

D 144

Source: Algebra 2, McDougal Littel, p. 286

217 ***What kind of sequence of numbers is 4, 7, 10, 13, 16...?***

A Geometric **B** Arithmetic

C Power **D** Hyperbolic

Source: Algebra 2, McDougal Littel, p. 659

218 ***Which is NOT a method for solving a SYSTEM of equations?***

A Combinatronics **B** Substitution

C Linear Combination **D** Graphing

Source: Algebra 2, McDougal Littel, p. 139, 148

219 ***What are the factors of 36?***

A 1 + 36 **B** √36

C 4 • 9 and 6 • 6 **D** 1, 2, 3, 4, 6, 9, 12, 18, 36

Source: Algebra 1, Mcgraw-Hill, p. 380

220 ***Parallel lines have the same:***

A y - intercept **B** x - intercept

C Origin **D** Slope

Source: Algebra 1, Mcgraw-Hill, p. 362

221 ***What is the graph of the function y = 1/x?***

A Hyperbola **B** Parallel lines

C Parabola **D** Circle

Source: Algebra 2, McDougal Littel, p. 540

222 ***What does $2^3 \cdot 2^0 \cdot 2^2$ equal?***

A 0 **B** 32

C 64 **D** 1

Source: Algebra 2, McDougal Littel, p. 323

223 ***If f(x) = 3x - 1, what is f(1)?***

A -4 **B** 3x - 1

C 1 **D** 2

Source: Algebra 2, McDougal Littel, p. 69

224 ***Complete: A line with _____ slope rises from left to right.***

A Undefined **B** Negative

C Positive **D** Zero

Source: Algebra 2, McDougal Littel, p. 76

225 ***If Jerome walked 48 miles in 4 days what was his average speed?***

A 48 mi/day
B 192 mi.days
C 12 mi/hr
D 12 mi/day

Source: Algebra 2, McDougal Littel p. 183

226 ***Solve -x + 2 > 5.***

A x < -3
B -x > 3
C x > -3
D x < 7

Source: Algebra 2, McDougal Littel, p. 41

227 ***Complete: The sum of an even number and an odd number is _____ an odd number.***

A Always
B Sometimes
C Never
D Approximately

Source: Math On Call, Houghton Mifflin, p.55

228 ***Evaluate 2^3.***

A 2 + 2 + 2
B 9
C 8
D 6

Source: Algebra 1, Mcgraw-Hill, p. 8

229 ***What is the median of the following data: 2 ,4, 6, 8, 10***

A 6
B 8
C 7
D 10

Source: algebra 1, McDougal Littel, p 369

230 ***If a fair die whose sides are numbered 1-6 is rolled, what is the probability of rolling an odd number?***

A 3
B 3/5
C 5
D 1/2

Source: Algebra 2, McDougal Littel, p. 716

231 ***Complete: In trigonometry, the tangent of an acute angle of a right triangle (in terms of lengths of sides) is _____ .***

A $\frac{\text{opposite}}{\text{adjacent}}$
B $\frac{\text{adjacent}}{\text{hypotenuse}}$
C $\frac{\text{opposite}}{\text{hypotenuse}}$
D $\frac{\text{hypotenuse}}{\text{opposite}}$

Source: Algebra 2, McDougal Littel, p. 769

232 ***If M is the midpoint of line segment AB, which of these is NOT true?***

A Segments AM and MB are congruent
B AM + MB = AB
C AB = 2AM
D Rays AM and AB are opposite rays

Source: Geometry, Prentice Hall, p. 37

233 ***Which two mathematicians solved the first probability problem?***

A Euclid and Pythagoras
B Blaise Pascal and Pierre Fermat
C Karl Friedrich Gauss and Johann Kepler
D Charles Richter

Source: Algebra 2, McDougal Littel, p. 737

234 ***What is used to describe the variability of data that have a <u>normal</u> distribution?***

A Standard deviation
B Binomial deviation
C Bimodal deviation
D Negative deviation

Source: Math On Call, Houghton Mifflin, p.282

235 ***Who was the father of plane geometry?***

A Descartes
B Euler
C Euclid
D Pythagoras

Source: Geometry, Prentice Hall, p. 393

236 ***If a card is drawn randomly from a standard deck of 52 playing cards, what is the probability of drawing an ace?***

A 26/52
B 1/52
C 13/52
D 4/52

Source: Algebra 2, McDougal Littel, p. 719

237 ***If distance is d, rate is r, and time is t, what is the distance formula?***

A $d = r \cdot t$
B $r = d \cdot t$
C $d = r/t$
D $d = t/r$

Source: Algebra 2, McDougal Littel, p. 33

238 ***What is the name of the property that states that between every 2 rational numbers there is another rational number?***

A Commutative
B Associative
C Distributive
D Density

Source: Math On Call, Houghton Mifflin, p.230

239 ***Which expression can NOT be simplified?***

A $4x - x$
B $-(x + x)$
C $4x + 3x$
D $4x - 3$

Source: Algebra 2, McDougal Littel, p. 62

240 ***Coplanar lines that do NOT intersect are called:***

A Perpendicular
B Skew
C Obtuse
D Parallel

Source: Geometry, Prentice Hall, p. 18

241 ***A horizontal line has slope:***

A 0 **B** 1

C Undefined **D** Infinity

Source: Algebra 1, Mcgraw-Hill, p. 326

242 ***What is .000342 wrritten in scientific notation?***

A $.342 \times 10^{-5}$ **B** 3.42×10^{-4}

C 34.2×10^{-4} **D** 3.42×10^{4}

Source: Algebra2, McDougal Litell, p. 176

243 ***What is the value of 3^{-2} ?***

A -6 **B** -9

C 1/9 **D** -1/9

Source: Algebra 2, McDougal Littell, p 457

244 ***What is the name of a line in the plane of a circle that intersects the circle in exactly 1 point?***

A Chord **B** Arc

C Secant **D** Tangent

Source: Geometry, Prentice Hall, p. 593

245 ***If the discriminant (b^2 - 4ac) for the quadratic equation $ax^2 + bx + c = 0$ is negative, how many real solutions does it have?***

A 2 **B** 3

C 1 **D** 0

Source: Algebra To Go, Houghton Mifflin, p.187

246 ***What is the image of the point (-1, 2) under a reflection in the line x = 0?***

A (-1, 2) **B** (1, 2)

C (1, -2) **D** (2, -1)

Source: Geometry, Prentice Hall, p. 129

247 ***If quadrilateral ABCD is congruent to quadrilateral QRST, which segment is congruent to segment DC?***

A Segment RS **B** Segment RQ

C Segment QR **D** Segment TS

Source: Geometry, Prentice Hall, p. 426

248 ***Complete: In a circle, a radius drawn to the point of tangency is _____ to the tangent.***

A Equivalent **B** Perpendicular

C Parallel **D** Opposite

Source: Algebra To Go, Houghton Mifflin, p.255

249 ***In plane geometry, 2 points determine a _____ .***

A Plane **B** Line

C Midpoint **D** Coordinate

Source: Algebra To Go, Houghton Mifflin, p.210

250 ***Express 0.00012 in scientific notation.***

A 1.2×10^4 **B** 12×10^4

C 12×10^{-4} **D** 1.2×10^{-4}

Source: Algebra 1, Mcgraw-Hill, p. 506

251 ***The mean for the set of data 3, 4, 6, 7 is _____***

A 4 **B** 5

C 6 **D** 10

Source: Algebra 1, Mcgraw-Hill, p. 179

252 ***If 2/3 = 10/x, what is x equal to?***

A 30 **B** 40

C 20/3 **D** 15

Source: Algebra 1, Mcgraw-Hill, p. 196

253 ***Find the number of permutations of 5 things taken 2 at a time.***

A 20 **B** 7

C 25 **D** 10

Source: Algebra 2, McDougal Littel, p. 704

254 ***What is the rectangular arrangement of numbers in rows and columns called?***

A Matrix **B** Coordinate grid

C Vector **D** Line

Source: Algebra 2, McDougal Littel, p. 199

255 ***Pyramids are named by their:***

A Faces **B** Base

C Location **D** Pharaoh

Source: Geometry, Prentice Hall, p. 316

256 ***Two intersecting lines are _____ coplanar.***

A Always **B** Sometimes

C Never **D** Acutely

Source: Geometry, Prentice Hall, p. 16

257 ***In transformational geometry, a slide is also called a _____ .***

A Rotation **B** Reflection

C Slope **D** Translation

Source: Algebra To Go, Houghton Mifflin, p.268

258 ***Complete: The product of 2 negative numbers is _____ positive.***

A Always **B** Sometimes

C Never **D** Inversely

Source: Math On Call, Houghton Mifflin, p.164

259 ***Opposite sides of a parallelogram are:***

A Horizontal **B** Congruent

C Equiangular **D** Perpendicular

Source: Geometry, Prentice Hall, p. 448

260 ***What are 3 or more lines that intersect in one point called?***

A Perpendicular **B** Concurrent

C Medians **D** Skew

Source: Geometry, Prentice Hall, p. 227

261 ***The diagonals of which quadrilateral are always congruent?***

A Kite **B** Rhombus

C Rectangle **D** Trapezoid

Source: Geometry, Prentice Hall, p. 464

262 ***Name the line that the graph of an exponential function approaches as you move away from the origin.***

A Exponent **B** Perpendicular bisector

C Logarithm **D** Asymptote

Source: Algebra 2, McDougal Littel, p. 465

263 ***Two line segments with the same length are:***

A Congruent **B** Complementary

C Similar **D** Adjacent

Source: Geometry, Prentice Hall, p. 25

264 ***Solve the equation 2x - 1 = 3.***

A x = 1 **B** x = -1

C x = 8 **D** x = 2

Source: Algebra 1, Mcgraw-Hill, p. 155

265 ***Which set of numbers is closed with respect to division?***

A Counting numbers **B** Whole numbers

C Integers **D** Rational numbers

Source: Algebra 2, McDougal Littel, p. 3

266 ***The sum of the measures of the angles of a triangle is:***

A 180 degrees **B** 360 degrees

C 90 degrees **D** Not enough information

Source: Geometry, Prentice Hall, p.117

267 ***In a regular polygon, the perpendicular distance from the center to a side is called the:***

A Radius **B** Leg

C Hypotenuse **D** Apothem

Source: Geometry, Prentice Hall, p. 274

268 ***Complete: Two line segments are _____ coplanar.***

A Always **B** Sometimes

C Never **D** Linear

Source: Geometry, Prentice Hall, p. 60

269 ***Solve $|x| \geq 3$.***

A $x \leq -3$ **B** $x \geq 3$ or $x \leq -3$

C $-3 \leq x \leq 3$ **D** $x \geq 3$

Source: Algebra 1, Mcgraw-Hill, p. 51

270 ***Put these numbers in increasing order from left to right: 5/6, -2, 1, 6/5, -6, 7/8***

A -6, -2, 7/8, 5/6, 1, 6/5 **B** -6, -2, 5/6, 7/8, 1, 6/5

C -2, -6, 5/6, 7/8, 1, 6/5 **D** 5/6, 7/8, 1, 6/5, -2, -6

Source: Algebra 2, McDougal Littel, p. 7

271 ***The supplement of an 80 degree angle measures:***

A 180 degrees **B** 100 degrees

C 10 degrees **D** 80 degrees

Source: Geometry, Prentice Hall, p. 48

272 ***What is the least common denominator for the sum $\frac{5}{3n} + \frac{1}{6n^2}$?***

A $18n^3$ **B** $3n$

C $6n^2$ **D** $9n^3$

Source: Algebra 1, Mcgraw-Hill, p. 686

273 ***Complete: The area of a parallelogram with base b and height h is the same as the area of a _____ with base b and height h.***

A Triangle **B** Rectangle

C Quadrilateral **D** Trapezoid

Source: Geometry, Prentice Hall, p. 670

274 ***If a card is randomly selected from a standard deck of 52 playing cards, what is the probability that it is an ace OR a face card (jack, queen, king)?***

A 12/52 - 4/52 = 8/52 **B** 4/52 + 12/52 = 16/52

C 4/52 + 13/52 = 17/52 **D** 13/52 + 13/52 = 26/52

Source: Algebra 2, McDougal Littel, p. 724

275 ***The least common multiple of 4 and 10 is:***

A 14 **B** 40

C 2 **D** 20

Source: Algebra 1, Mcgraw-Hill, p. 685

276 ***The correct order of operations is:***

A ( ), exponents, x & ÷, + & - **B** exponents, ( ), x & ÷, + & -

C ( ), exponents, + & -, x & ÷ **D** In order from left to right

Source: Algebra 1, Mcgraw-Hill, p. 139

277 ***What kind of sequence of numbers is 2, 6, 18, 54...***

A Arithmetic **B** Power

C Logarithmic **D** Geometric

Source: Algebra 2, McDougal Littel, p. 666

278 ***The expression formed by adding the terms of a number sequence is a:***

A Sequence **B** Product

C Square root **D** Series

Source: Algebra 2, McDougal Littel, p. 653

279 ***Evaluate*** $\frac{(-5)(-3)|-8|}{4}$.

A -30 **B** 60

C -60 **D** 30

Source: Algebra 1, Mcgraw-Hill, p. 380

280 ***Another name for multiplicitive inverse is:***

A Opposite **B** Identity

C Reciprocal **D** Operation

Source: Algebra 2, McDougal Littel, p. 5

281 ***What is the geometric mean of 4 and 9? (Hint: 4/x = x/9)***

A 36 **B** 13

C 6 **D** 13/2

Source: Geometry, Prentice Hall, p. 512

282 ***Which of the following is NOT an application of trigonometry?***

A Surveying **B** Angle of elevation

C Navigation **D** Telling time

Source: Trigonometry, Harcourt Brace Jovanovich, p.41, 47, 49

283 ***What is the value of -6^0?***

A 1 **B** 0

C -1 **D** -6

Source: Algebra 2, McDougal Littel, p. 392

284 ***What part of the quadratic formula is the discriminate?***

A b^2-4ac **B** 2a

C -4ac **D** The whole formula

Source: Algebra 2, McDougal Littel, p. 293

285 ***The greatest common factor of 18 and 24 is:***

A 6 **B** 3

C 2 **D** 48

Source: Algebra 1, Mcgraw-Hill, p. 559

286 ***The next term of the sequence 1, 1, 2, 3, 5, 8... is:***

A 13 **B** 40

C 11 **D** 10

Source: Algebra 1, Mcgraw-Hill, p. 13

287 ***30 is what percent of 50?***

A 60% **B** 55%

C 65% **D** 50%

Source: Algebra 1, Mcgraw-Hill, p. 559

288 ***What is the formula for volume of a cylinder?***

A $V = \pi r^2 h$ **B** $V = \pi r^2$

C $V = 2\pi rh + 2\pi r^2 D$ **D** $V = 4/3\pi r^3$

Source: Geometry, Prentice Hall, p. 325

289 ***What is the area of an isosceles right triangle with a leg length of 4 cm?***

A 12 cm

B 16 square cm

C 32 cm^2

D 8 square cm

Source: Geometry, Prentice Hall, p. 251

290 ***Name the angle formed by the intersection of 2 planes.***

A Dihedral

B Quadratic

C Vertex

D Parabolic

Source: Algebra To Go, Houghton Mifflin, p.218

291 ***Find the area of a trapezoid whose parallel sides (the bases) measure 2 cm and 5 cm and whose height is 4 cm.***

A 14 cm^2

B 28 cm^2

C 40 cm^2

D 20 cm^2

Source: Geometry, Prentice Hall, p. 269

292 ***Name the computer program that organizes, analyzes, computes, sorts, and retrieves data.***

A Spreadsheet

B Modem

C Active cell

D Word processing

Source: Algebra To Go, Houghton Mifflin, p.428

293 ***What are the measures of the acute angles of an isosceles right triangle?***

A 45 degrees and 45 degrees

B 90 degrees and 45 degrees

C 30 degrees and 60 degrees

D 60 degrees and 60 degrees

Source: Geometry, Prentice Hall, p. 269

294 ***What is the 4th root of 5^3 in exponential form?***

A 5 to the 3/4 power

B 125

C 15

D 5 to the 4/3 power

Source: Algebra 2, McDougal Littill, p. 402

295 ***To find the probability of drawing a jack, then a king from a standard 52-card deck without replacement, perform:***

A 4/52 • 4/51

B 4/52 + 4/52

C 4/52 + 4/51

D 4/52 • 3/51

Source: Algebra 2, McDougal Littel, p. 732

296 ***An acute angle is an angle that:***

A Is less than 90º

B Is good looking

C Is supplementary

D Measures between 90 and 180 degrees

Source: Geometry, Prentice Hall, p. 27

297 ***In trigonometry, the cosine of an acute angle of a right triangle (in terms of lengths of sides) is:***

A $\frac{\text{opposite}}{\text{adjacent}}$ **B** $\frac{\text{adjacent}}{\text{hypotenuse}}$

C $\frac{\text{opposite}}{\text{hypotenuse}}$ **D** $\frac{\text{hypotenuse}}{\text{opposite}}$

Source: Algebra 2, McDougal Littel, p. 769

298 ***What is the simplified form of*** $(8)^{2/3}$ ***?***

A 4 **B** 2

C 16/3 **D** 8

Source: Algebra 2, McDougal Littel, p. 172

299 ***Choose the expression that has a value of 28.***

A 8 • 4 - 8 **B** (3 + 5) • 7 ÷ 2

C 4 + 3 • 4 **D** 75/3 - 2

Source: Algebra 1, Mcgraw-Hill, p. 138

300 ***What does*** 2^{-3} ***equal?***

A 2/3 **B** -8

C -6 **D** 1/8

Source: Algebra 1, Mcgraw-Hill, p. 323