

Meet 3 Answers

***Arithmetic w/ Percent
December 1994***

1. \$9.60
2. 137 boxes
3. 30%

***Arithmetic w/ Percent
December 1995***

1. 87
2. 16
3. 2000

***Arithmetic w/ Percent
December 1996***

1. $\frac{9407}{9900}$
2. \$2800
3. 499

***Arithmetic w/ Percent
December 1998***

1. 25
2. 6.391
3. (24, 144) (48, 72)

***Arithmetic w/ Percent
December 1999***

1. 113.5
2. 25
3. 16

***Arithmetic w/ Percent
December 2000***

1. 38.8 or 38%
2. \$2870 or 2870
3. 24 grams or 24

***Arithmetic w/ Percent
December 2001***

1. 125
2. 37.14
3. 6050

***Arithmetic w/ Percent
December 2002***

1. 400%
2. 10%
3. 12.5%

***Arithmetic w/ Percent
December 2003***

1. 50
2. 48°
3. 7251.03

***Arithmetic w/ Percent
December 2004***

1. 400
2. 4725
3. 35

***Arithmetic w/ Percent
December 2005***

1. 75 or 75 girls
2. 40 or 40 ft
3. 25 or 25 students

***Arithmetic w/ Percent
December 2006***

1. 240
2. May 18
3. \$6,000

Arithmetic w/ Percent
December 2007

1. 60%
2. 200%
3. $\frac{1}{2}$ acre or .5 acres

Probability
December 1991

- 1.
- 2.
- 3.

Probability
December 1992

- 1.
- 2.
- 3.

Probability
December 1993

- 1.
- 2.
- 3.

Probability
December 1994

1. $\frac{4}{7}$ or $\frac{3}{4}$
2. $\frac{65}{256}$
3. 24 yellow, 18 silver, 30 blue

Probability
December 1995

1. 21.4
2. .955
3. $\frac{5}{33}$

Probability
December 1996

1. $\frac{2}{5}$
2. 13.35
3. $\frac{121}{301}$

Probability
December 1999

1. .096
2. .024
3. $\frac{1}{6}$

Probability
December 2000

1. $\frac{3}{5}$
2. $\frac{3}{7}$
3. $\frac{53}{180}$

Probability
December 2001

1. $\frac{1}{12}$
2. $\frac{1}{3}$
3. 31250

Probability
December 2002

1. $\frac{1}{52}$
2. $\frac{11}{16}$
3. $\frac{1}{280}$

Probability
December 2003

1. $\frac{7}{17}$
2. $\frac{37}{64}$
3. $\frac{328}{625}$

Probability
December 2004

1. $\frac{11}{15}$
2. $\frac{22}{425}$
3. $\frac{196}{495}$

Probability
December 2005

1. $\frac{1}{28}$
2. $\frac{1}{5}$
3. 6

Probability
December 2006

1. $\frac{9}{66}$
2. $\frac{5}{12}$
3. $\frac{322}{429}$

Probability
December 2007

1. $\frac{8}{15}$
2. $\frac{13}{16}$
3. \sqrt{n}

***Exponents and Radicals
December 1988***

1. 10
2. $4^{14} 8^{10} 9^{10} 3^{22}$
3. $x = 4$ $y = 50$

***Exponents and Radicals
December 1989***

1. $16 - 8\sqrt{3}$
2. $\frac{5}{2}$
3. $t = -1$ or 0

***Exponents and Radicals
December 1991***

- 1.
- 2.
- 3.

***Exponents and Radicals
December 1992***

- 1.
- 2.
- 3.

***Exponents and Radicals
December 1993***

1. $2\frac{1}{2}$
2. $\frac{2}{27}$
3. -1 or 2

***Exponents and Radicals
December 1994***

1. $\frac{1}{4}$
2. 26 or 10
3. 9

***Exponents and Radicals
December 1995***

1. $\frac{185\sqrt{2}}{4}$ or $46.25\sqrt{2}$
2. $x < -1$ or $x > 2$
3. 27

***Exponents and Radicals
December 1996***

1. $3b + 7c$
2. -64
3. $\frac{5}{72}$

***Exponents and Radicals
December 1999***

1. $\frac{1}{2}$
2. 150
3. ADECB

***Exponents and Radicals
December 2000***

1. 5
2. 3, -2
3. $\frac{1+\sqrt{5}}{2}$ or $\frac{1}{2} + \frac{\sqrt{5}}{2}$

Exponents and Radicals
December 2001

1. 7
2. no solution
3. $x = 1, 2, 3, 4, 5$

Exponents and Radicals
December 2002

1. 9
2. 33
3. 81

Exponents and Radicals
December 2003

1. 24
2. $\frac{5}{16}$
3. 5

Exponents and Radicals
December 2004

1. 4 or $k = 4$
2. $\sqrt[6]{24}$
3. 9 or $x = 9$

Exponents and Radicals
December 2005

1. $-\sqrt{3}$
2. 5
3. -2, -1, 0, 2

Exponents and Radicals
December 2006

1. -1 or 4
2. 2
3. 6

Exponents and Radicals
December 2007

1. $\frac{5}{4}$ or $1\frac{1}{4}$ or 1.25
2. $\sqrt{3} - \sqrt{2}$
3. $-\frac{1}{8}$

Lines, Angles, and Polygons

December 1988

1. 3 : 7
2. 110
3. 81°

Lines, Angles, and Polygons

February 1989

1. 17
2. 360
3. $64 + 64\sqrt{2}$

Lines, Angles, and Polygons

December 1989

1. 39
2. $80^\circ 120^\circ 150^\circ$
3. 360°

Lines, Angles, and Polygons

January 1990

1. $3p$
2. 8
3. $P_1 = 3P_2 = 6$

Lines, Angles, and Polygons

December 1991

- 1.
- 2.
- 3.

Lines, Angles, and Polygons

February 1992

- 1.
- 2.
- 3.

Lines, Angles, and Polygons

February 1993

- 1.
- 2.
- 3.

Lines, Angles, and Polygons

December 1992

- 1.
- 2.
- 3.

Lines, Angles, and Polygons

December 1993

- 1.
- 2.
- 3.

Lines, Angles, and Polygons

December 1994

1. 36°
2. 150°
3. $3\frac{3}{4}$ or $\frac{15}{4}$

Lines, Angles, and Polygons

December 1995

1. 58
2. 14
3. 360

Lines, Angles, and Polygons

December 1996

1. 15
2. p^2
3. 90

Lines, Angles, and Polygons
December 1999

1. 60
2. 135
3. $\frac{2\sqrt{3}}{3}$

Lines, Angles, and Polygons
December 2000

1. 216
2. 23
3. 24

Lines, Angles, and Polygons
December 2001

1. 20
2. 10
3. $20\sqrt{3}$

Lines, Angles, and Polygons
December 2002

1. 135
2. 60°
3. 6

Lines, Angles, and Polygons
December 2003

1. 72
2. $4\sqrt{3}$
3. 2880

Lines, Angles, and Polygons
December 2004

1. 150°
2. 324
3. $36 + 18\sqrt{3}$

Lines, Angles, and Polygons
December 2005

1. 171 or 171 cm
2. 156 or 156°
3. $\frac{60}{13}$ or $\frac{60}{13}$ ft. or $4\frac{8}{13}$

Lines, Angles, and Polygons
December 2006

1. 9
2. $6\sqrt{2} + 2\sqrt{58}$
3. $18\sqrt{6} + 36\sqrt{2}$

Lines, Angles, and Polygons
December 2007

1. 18
2. 360°
3. 110°

Complex Numbers

December 1988

1. $\frac{6}{5} - \frac{9}{10}i$

2. 0, 1, -1

3.

$f(x) = x^5 - 3x^4 + 29x^3 - 77x^2 + 100x - 50$

Complex Numbers

December 1989

1. $\frac{3}{25} + \frac{4}{25}i$

2. $x = -1, 2, \text{ or } \frac{2}{3} \pm \frac{1}{3}i$

3. $-\frac{1}{2} - \frac{1}{2}i$

Complex Numbers

December 1991

1.

2.

3.

Complex Numbers

December 1992

1.

2.

3.

Complex Numbers

December 1994

1. 5

2. $0 - 1889568i$

3. $\pm(2 + 3i)$

Complex Numbers

March 1994

1. $-\frac{15}{34} + \frac{21}{17}i$

2. -3 and $2i$

3. $\pm i, \pm \frac{\sqrt{3}}{2}, \pm \frac{1}{2}i$

Complex Numbers

December 1995

1. $\frac{10}{17} - \frac{11}{17}i$

2. $\frac{3}{5} + \frac{1}{5}i$

3. $1 - 2i, 2\frac{1}{7}$

Complex Numbers

December 1996

1. $-61 - 7i$

2. $-64 - 64\sqrt{3}i$ or $128 \text{ cis } 240^\circ$

3. $3 + 2i$ or $-3 - 2i$

Complex Numbers

December 1998

1. $-2 + \frac{2}{3}i$

2. $\frac{5}{13} - \frac{1}{13}i$

3. $1 + \sqrt{3}i$

Complex Numbers

December 1999

1. $1 + i$

2. 4

3. 1

Complex Numbers

December 2000

1. $\frac{5}{13} - \frac{12}{13}i$

2. (4, 3)

3. $(1 - 5i, -1 - \sqrt{5}i), (1 + \sqrt{5}i, -1 + \sqrt{5}i)$

Complex Numbers

December 2001

1. 50

2. -8

3. $1 - i, i\sqrt{5}, -i\sqrt{5}, 1 + i$

Complex Numbers

December 2002

1. $\frac{12}{13} + \frac{5}{13}i$

2. -324

3. $2 - i, 3 \pm 2i$

Complex Numbers

December 2003

1. 120

2. $\sqrt{7}i$

3. 4

Complex Numbers

December 2004

1. 0

2. $1 + 2i$

3. $5 + 7i, -6 - 7i$

Complex Numbers

December 2005

1. $-\frac{17}{25} - \frac{6}{25}i$

2. $x^3 - 2x^2 + 9x - 18 = 0$

3. $\frac{-1 \pm i\sqrt{5}}{2}$

Complex Numbers

December 2006

1. $\frac{3}{13} - \frac{11}{13}i$

2. $\sqrt{65}$

3. $512i$

Complex Numbers

December 2007

1. $-2 - 6i$

2. 1

3. $x^4 + 4 = 0$