Meet 3 Answers

1. Probability

December 1991

1. $\frac{1}{6}$
2. **7**
3. **2**

December 1992

1.
2.
3.

December 1993

1.
2.
3.

December 1994

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

December 1995

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

December 1996

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

December 1999

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

December 2000

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

December 2001

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

December 2002

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

December 2003

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

December 2004

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

1. Probability

December 2005

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

December 2006

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

December 2007

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

December 2008

1. $\frac{1}{2}$
2. $\frac{5}{21}$
3. $\frac{1}{4}$

December 2009

1. $\frac{1}{9}$
2. $\frac{5}{324}$
3. $\frac{21}{32}$

December 2010

1. $\frac{13}{49}$
2. $\frac{2}{7}$
3. $\frac{25}{52}$ or **.4808**

December 2011

1.
2.
3.

December 2012

1.
2.
3.

2. Exponents and Radicals

December 1988

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

December 1989

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

December 1991

1. $\frac{3}{5}$
2. **4**
3. **9**

December 1992

1. **90**
2. $\frac{227}{60}$
3. **1 or 2**

December 1993

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

December 1994

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

December 1995

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

December 1996

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

December 1999

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

December 2000

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

December 2001

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

December 2002

1. **9**
2. **33**
3. **81**

December 2003

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

December 2004

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

December 2005

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

December 2006

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

December 2007

1. **5/4** or **1 ¼** or **1.25**
2. $\sqrt{3}-\sqrt{2}$
3. $-\frac{1}{8}$

December 2008

1. **65**
2. **2400**
3. **1 or -2**

December 2009

1. **6**
2. $\frac{5}{12}$
3. $-3-2\sqrt[4]{2}-2\sqrt{2}-2\sqrt[4]{8}$

December 2010

1. $6\sqrt[3]{17}$
2. **-3, 8** or **x = -3, x = 8**
3. $-25\sqrt{5}$

December 2011

1.
2.
3.

December 2012

1.
2.
3.

3. Lines, Angles, and Polygons

December 1988

1. **3 : 7**
2. **110**
3. **81°**

February 1989

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

December 1989

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

January 1990

1. 3π
2. **8**
3. $P_1 = 3 \;\; P_2 = 6$

December 1991

1. **72.5**
2.
3.

February 1992

1. **36.7'**
2. $-32 + 32\sqrt{2}$
3.

February 1993

1.
2.
3.

December 1992

1. **68°**
2.
3.

December 1993

1.
2.
3.

December 1994

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

December 1995

1. **58**
2. **14**
3. **360**

December 1996

1. **15**
2. p^2
3. **90**

December 1999

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

December 2000

1. **216**
2. **23**
3. **24**

December 2001

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

December 2002

1. **135**
2. 60°
3. **6**

December 2003

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

December 2004

1. **150^{o}**
2. **324**
3. $36+18\sqrt{3}$

December 2005

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

December 2006

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

December 2007

1. **18**
2. **360°**
3. **110°**

December 2008

1. **30**
2. $27+27\sqrt{3}$
3. $5\sqrt{3}$

December 2009

1. **36**
2. **180n + 360**
3. **122**

December 2010

1. **90 - a**
2. **2880**
3. $4\sqrt{6}$

December 2011

1.
2.
3.

December 2012

1.
2.
3.

4. Complex Numbers

December 1988

1. $\frac{6}{5}-\frac{9}{10}i$
2. **0, 1, -1**
3. $f(x)=x^5-3x^4+29x^3-77x^2+100x-50$

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

December 1991

1. **0**
2. $-\frac{4}{13}+\frac{7}{13}i$
3. **0,** $\pm 2\sqrt{3}$

December 1992

1. $\frac{4}{25}-\frac{3}{25}i$
2. ***2i, i***
3. $\frac{59}{64}-\frac{70\sqrt{3}}{16}$

December 1994

1. **5**
2. $0-1889568i$
3. $\pm(2+3i)$

March 1994

1. $-\frac{15}{34}+\frac{21}{17}i$
2. **-3 and 2*i***
3. $\pm i,\ \pm\frac{\sqrt{3}}{2},\ \pm\frac{1}{2}i$

December 1995

1. $\frac{10}{17}-\frac{11}{17}i$
2. $\frac{3}{5}+\frac{1}{5}i$
3. $1-2i,\ 2\frac{1}{7}$

December 1996

1. **-61 - 7*i***
2. $-64-64\sqrt{3}i$ or $128\ \text{cis}240^\circ$
3. $3+2i$ or -3-2*i*

December 1998

1. $-2+\frac{2}{3}i$
2. $\frac{5}{13}-\frac{1}{13}i$
3. $1+\sqrt{3}i$

December 1999

1. $1+i$
2. **4**
3. **1**

December 2000

1. $\frac{5}{13}-\frac{12}{13}i$
2. **(4, 3)**
3. $\left(1-5i,-1-\sqrt{5}i\right),\ \left(1+\sqrt{5}i,-1+\sqrt{5}i\right)$

December 2001

1. **50**
2. **-8**
3. $1-i,\ i\sqrt{5},\ -i\sqrt{5},\ 1+i$

December 2002

1. $\frac{12}{13}+\frac{5}{13}i$
2. **-324**
3. $2-i,\ 3\pm 2i$

December 2003

1. **120**
2. $\sqrt{7}i$
3. **4**

December 2004

1. **0**
2. $1+2i$
3. $5+7i,\ -6-7i$

December 2005

1. $-\frac{17}{25}-\frac{6}{25}i$
2. $x^3-2x^2+9x-18=0$
3. $\frac{-1\pm i\sqrt{5}}{2}$

December 2006

1. $\frac{3}{13}-\frac{11}{13}i$
2. $\sqrt{65}$
3. $512i$

December 2007

1. $-2-6i$
2. **1**
3. $x^4+4=0$

December 2008

1. $20-20i$
2. **1**
3. **3 -2*i*,** $\frac{2}{3}, -\frac{3}{2}$

December 2009

1. $1+6i$
2. $-\frac{9}{10}+\frac{13}{10}i$
3. **1 + *i* and -1 - *i***

December 2010

1. $10-11i$
2. $-1\pm i\sqrt{5}$
3. **4**

December 2011

1.
2.
3.

December 2012

1.
2.
3.

5. Arithmetic with Percent

December 1994

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

December 1995

1. **89**
2. **16**
3. **2000**

December 1996

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

December 1998

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

December 1999

1. **113.5**
2. **25**
3. **16**

December 2000

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

December 2001

1. **125**
2. **37.14**
3. **6050**

December 2002

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

December 2003

1. **50**
2. **48°**
3. **7251.03**

December 2004

1. **400**
2. **4725**
3. **35**

December 2005

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

December 2006

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

December 2007

1. **60%**
2. **200%**
3. **½ acre** or **.5 acres**

December 2008

1. **16,105**
2. **$900**
3. **8**

December 2009

1. **10**
2. **4**
3. **5.11**

December 2010

1. **72**
2. **32**
3. **64**

December 2011

1.
2.
3.

December 2012

1.
2.
3.