

Grissom – 3-4-5 Contest

Sample All Levels

Sample Round

1. 61	2. 164
3. 605	4. 29
5. 2520	

Grissom – 3-4-5 Contest

PreAlgebra

Algebra I

Geometry

Algebra II

Comprehensive

Round 1

1. $\frac{3}{8}$	2. 8
3. $26\sqrt{2}$	4. $\frac{17}{36}$
5. -90	

Round 2

1. 14	2. 3
3. 294	4. 147
5. 54	

Round 3

1. $b < -11$	2. 1000
3. $y = -\frac{1}{3}x + 8$	4. 38
5. $\frac{528}{5}$	

Round 4

1. $\frac{10}{9}$	2. 64
3. $m = -\frac{2}{5}$	4. $\frac{3}{40}$
5. Thursday	

Grissom – 3-4-5 Contest

PreAlgebra

Algebra I

Geometry

Algebra II

Comprehensive

Round 1

1. 1999	2. 9
3. -4	4. $-\frac{14}{9}$
5. $\frac{315}{8}$ or 39.375	

Round 2

1. 52.9	2. 220
3. $\frac{3}{7}, -3$	4. $\frac{38}{3}$
5. (1, 8), (-4, 2)	

Round 3

1. 25	2. $-\frac{2}{5}$
3. $\frac{1}{12}$	4. (3, -11)
5. (-1, 0, 4)	

Round 4

1. $48 + 7\sqrt{6}$	2. $a = \frac{2 \pm \sqrt{46}}{7}$
3. 14	4. (5, 0), (-1, 0)
5. C B A D	

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PreAlgebra

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Algebra II

Comprehensive

Round 1

1. 2520	2. $\frac{33\sqrt{5}}{5}$
3. $\sqrt{3}$	4. $(-6, \frac{52}{5})$ or $(-6, 10.4)$
5. 1568	

Round 2

1. 104	2. 45°
3. 3	4. 36π
5. $\frac{3}{8}$	

Round 3

1. $20\sqrt{3}$	2. 108π
3. 88°	4. $8\sqrt{2} + 24$
5. $3\sqrt{6}$	

Round 4

1. $\frac{18}{7}$	2. 100°
3. $16\sqrt{2}$	4. $8 + 8\sqrt{2}$
5. $\frac{9\pi}{2}$	

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PreAlgebra

Algebra I

Geometry

Algebra II

Comprehensive

Round 1

1. $\frac{48}{11}$	2. 48
3. 14	4. 1, 1/3
5. 4.5 or $\frac{9}{2}$	

Round 2

1. 1	2. $\frac{45}{2}$ or 22.5
3. $a = -6$	4. $\frac{3}{4}, \frac{5}{8}$
5. $\frac{25}{4}$	

Round 3

1. $\frac{1}{2}$	2. -5, -2, <i>and</i> 3
3. (2, -1)	4. 60
5. i or $0 + i$	

Round 4

1. $\frac{1}{2}$	2. $a^2 \sqrt[6]{a^5}$
3. 15	4. $y = \frac{3x-8}{x-3}$ or $y = \frac{1}{x-3} + 3$
5. 1850	

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Comprehensive

Round 1

1. $\frac{5}{3}$	2. $\frac{17}{36}$
3. $f(\theta) = \cot \theta$	4. 20π
5. $\left(\frac{1}{2}, -\frac{7}{3}, 0\right)$	

Round 2

1. $0, 7, \pm 2i$	2. 162
3. $\sqrt{3} - \frac{3}{2}$	4. $-\frac{1}{2} - \frac{\sqrt{3}}{2}i$
5. $(-4, -3) \cup (-1, 1) \cup (3, \infty)$	

Round 3

1. -134	2. $-\frac{7}{8}$
3. $\frac{19}{20}$	4. $\frac{13}{8} + \frac{5}{2}\cos 2x - \frac{1}{8}\cos 4x$
5. 3	

Round 4

1. 6	2. $\frac{3}{4}$
3. 0, -2, 3	4. 108
5. 91	