SPRING 2017 McNABB GDCTM CONTEST ANSWER SHEET

Name: __Key__   School: _____   Date: _____

Contest Taking (Circle One):

(Pre-algebra)   Algebra I   Geometry   Algebra II   Pre-calculus   Calculus

DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

2. All answers should be in standard simplified from unless otherwise stated. All variables are assumed to stand for real numbers unless otherwise stated.

1. 22.40	6. $20/33$	11. $\bigcirc$
2. 7^{14}	7. 24	12. 80
3. $40,000$	8. 76912	13. 99
4. 7	9. $\bigcirc$	14. -510
5. 7	10. 225	15. 784

SCORE: _____

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DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

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1. 22.40	6. F	11. 16
2. $20/33$	7. 69	12. -34
3. 324	8. 249	13. 51
4. 30	9. $(2, 8, 88)$ others possible check if close.	14. 29
5. 80π	10. 32	15. 7

SCORE:_____

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DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

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1. 36π	6. 60	11. 330
2. 6	7. $96\sqrt{3}$	12. $2/3$
3. 69	8. $11 + 5\sqrt{3}$	13. $5/3$
4. $16/25$	9. 19	14. 288
5. 80π	10. $2b^2/a$	15. $7/5$

SCORE: _____

Name: _____Key_____   School: _____   Date: _____

Contest Taking (Circle One):
Pre-algebra   Algebra I   Geometry   (Algebra II)   Pre-calculus   Calculus
DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

2. All answers should be in standard simplified from unless otherwise stated. All variables are assumed to stand for real numbers unless otherwise stated.

1. 7^{14}	6. $\pi(3-2\sqrt{2})$	11. 3
2. one of: $(5,2)$ $(2,5), (-5,-2)$; $(-2,-5), (7,-2)$ etc $(-5,7)$ etc...	7. 30	12. $33/116$
3. check if close $400+121+100$ or any permutation or $361+256+4$ or $400+196+25$ or $361+196+64$ etc... (one of →)	8. $1/13$	13. 38
4. $2b^2/a$	9. 80	14. $5\sqrt{13}/4$
5. 118	10. -630	15. 29

SCORE: _____

Spring 2017 McNabb GDCTM Contest Answer Sheet

Name: _____Key_____   School: _____   Date: _____

Contest Taking (Circle One):
Pre-algebra   Algebra I   Geometry   Algebra II   (Pre-calculus)   Calculus
DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

2. All answers should be in standard simplified from unless otherwise stated. All variables are assumed to stand for real numbers unless otherwise stated.

1. F	6. $\dfrac{\sqrt{2}+\sqrt{6}}{4}$	11. 120
2. $-2, -6$ need both	7. one of! $-\dfrac{1\pm\sqrt{3}i}{2}, \dfrac{-3\pm\sqrt{3}i}{2}$	12. 9
3. O	8. $33/116$	13. $1/3$
4. 99	9. $2, 3$ need both	14. $\pi(3-2\sqrt{2})$
5. $(13,8)$ others possible, (larger) check if close	10. 2100	15. One of: 36 or 64

SCORE:_____

SPRING 2017 McNABB GDCTM CONTEST ANSWER SHEET

Name: __Key__   School: _____   Date: _____

Contest Taking (Circle One):
Pre-algebra   Algebra I   Geometry   Algebra II   Pre-calculus   (Calculus)
DIRECTIONS:

1. You are NOT permitted to use a calculator or any other electronic device. You have 60 minutes for Geometry and above. You have 45 minutes for Pre-Algebra or Algebra I.

2. All answers should be in standard simplified from unless otherwise stated. All variables are assumed to stand for real numbers unless otherwise stated.

1. $1/13$	**6.** need both: $\dfrac{3 \pm \sqrt{3}}{3}$	**11.** $\pi^2/2$
2. 120	**7.** -510	**12.** $1/5$
3. $5/3$	**8.** $7/27$	**13.** -1023
4. $22/3$	**9.** $2/3$	**14.** $-\sqrt{3}/8$
5. $3/5$	**10.** $\dfrac{\pi}{6\sqrt{2}}$	**15.** one of 36 or 64

SCORE: _____