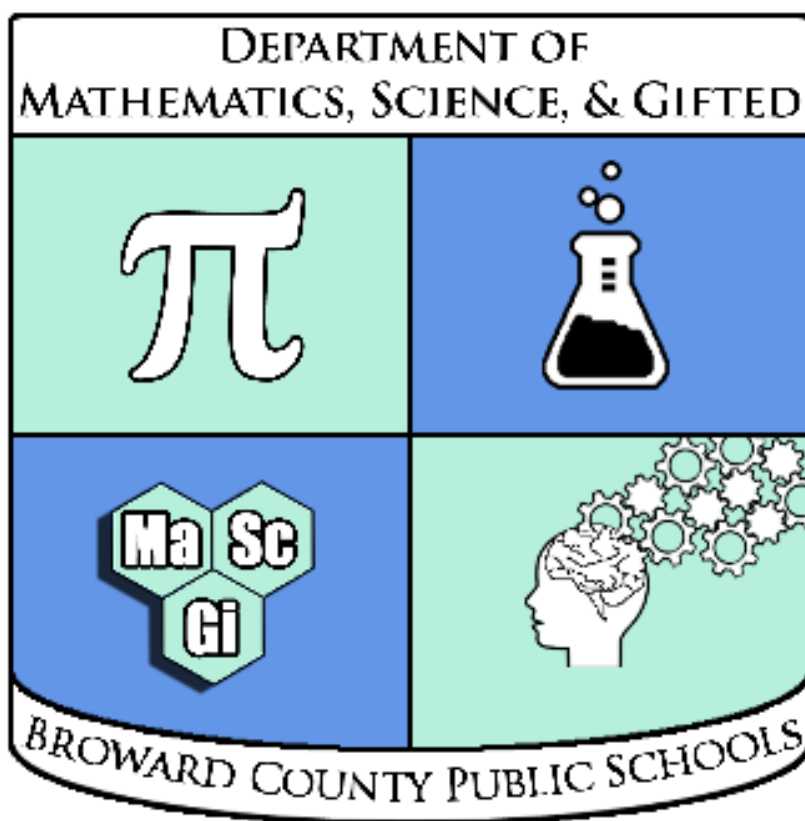


Name: _____

EOC FSA

Warm-ups Key



Geometry

Compiled by the Broward County Public Schools
Office of Instruction and Intervention
Mathematics, Science, & Gifted Department

Geometry EOC FSA Warmups: 40 Day Countdown Answer Section

- 1 ANS: B STA: MAFS.912.G-CO.1.3
 2 ANS: A, C, E STA: MAFS.912.G-C.1.3
 3 ANS: B STA: MAFS.912.G-C.1.2
 4 ANS: B STA: MAFS.912.G-C.1.2
 5 ANS: B STA: MAFS.912.G-GMD.2.4
 6 ANS:
 44

STA: MAFS.912.G-GPE.1.1

- 7 ANS: C STA: MAFS.912.G-SRT.3.7
 8 ANS: A, D STA: MAFS.912.G-GPE.2.5
 9 ANS: D STA: MAFS.912.G-SRT.2.5
 10 ANS:
 47 people per square mile

STA: MAFS.912.G-MG.1.2

- 11 ANS: B STA: MAFS.912.G-SRT.1.1
 12 ANS: B STA: MAFS.912.G-SRT.3.8
 13 ANS: B STA: MAFS.912.G-GMD.1.3
 14 ANS: B, D STA: MAFS.912.G-CO.2.6
 15 ANS: C STA: MAFS.912.G-CO.2.6
 16 ANS: C STA: MAFS.912.G-SRT.3.8
 17 ANS: B, G STA: MAFS.912.G-GPE.2.6
 18 ANS:
 3

STA: MAFS.912.G-CO.2.6

- 19 ANS: A, E STA: MAFS.912.G-SRT.1.2
 20 ANS: B, F STA: MAFS.912.G-CO.1.1
 21 ANS: C, D STA: MAFS.912.G-C.1.2
 22 ANS: C, D, E, F STA: MAFS.912.G-CO.2.6
 23 ANS: D STA: MAFS.912.G-SRT.1.1
 24 ANS: B, F STA: MAFS.912.G-GMD.1.1
 25 ANS: 15

STA: MAFS.912.G-SRT.2.5

- 26 ANS: D, E STA: MAFS.912.G-CO.3.9

27 ANS: 46

STA: MAFS.912.G-C.1.2

28 ANS: 3600

STA: MAFS.912.G-SRT.3.8

29 ANS:

-1

STA: MAFS.912.G-GPE.1.1

30 ANS:

Quadrant II

STA: MAFS.912.G-CO.1.5

31 ANS:

1326 mi

STA: MAFS.912.G-GPE.2.7

32 ANS:

36

STA: MAFS.912.G-C.1.2

33 ANS:

- A. No
- B. No
- C. Yes
- D. No
- E. No
- F. Yes

STA: MAFS.912.G-C.1.2

34 ANS: B STA: MAFS.912.G-CO.4.12

35 ANS: C STA: MAFS.912.G-CO.4.12

36 ANS:

113

STA: MAFS.912.G-MG.1.1

37 ANS:
Area

648 sq inches

Perimeter

102 inches

STA: MAFS.912.G-MG.1.1

38 ANS:
2000m

STA: MAFS.912.G-SRT.3.8

39 ANS:
1732

STA: MAFS.912.G-SRT.3.8

40 ANS:

3.4

STA: MAFS.912.G-SRT.3.8

41 ANS: C STA: MAFS.912.G-SRT.3.8

42 ANS: B STA: MAFS.912.G-CO.4.12

43 ANS: A STA: MAFS.912.G-Co.4.12

44 ANS:
Part A

243.2

Part B

1740

Part C

42.8

STA: MAFS.912.G-CO.1.2

45 ANS: A, C, E STA: MAFS.912.G-CO.3.10

46 ANS:

Possible answers:

A reflection across the x -axis, followed by a dilation with scale factor 2 and center A , followed by a translation 5 units to the left and 1 unit up maps ABC onto XYZ .

A translation 5 units to the left and 1 unit up, followed by a reflection across the line $y = 1$, followed by a dilation with scale factor 2 and center X maps ABC onto XYZ .

STA: MAFS.912.G-SRT.1.3

47 ANS:

The length of \overline{AB} is 3 units. The length of $\overline{AB'}$ is $3 + 1 = 4$ units. Therefore, \overline{AB} can be mapped onto $\overline{AB'}$ with a scale factor of $\frac{4}{3}$.

Notice that \overline{AB} is the radius of circle A and $\overline{AB'}$ is the radius of circle A' . Since the radius of a circle describes the distance from the center of the circle to any point on the circle, the same scale factor can be used to map any point on circle A onto the corresponding point on circle A' .

STA: MAFS.912.G-C.1.1

48 ANS:

Part A

$$\text{Sector } AOB: \frac{45}{360} \cdot 16\pi = 2\pi \approx 6.28$$

$$\text{Sector } BOC: \frac{90}{360} \cdot 16\pi = 4\pi \approx 12.56$$

$$\text{Sector } COD: \frac{60}{360} \cdot 16\pi = \frac{8\pi}{3} \approx 8.37$$

$$\text{Sector } DOE: \frac{35}{360} \cdot 16\pi = \frac{14\pi}{9} \approx 4.88$$

$$m\angle AOE = 360^\circ - 45^\circ - 90^\circ - 60^\circ - 35^\circ \\ = 130^\circ$$

$$\text{Sector } AOE: \frac{130}{360} \cdot 16\pi = \frac{52\pi}{9} \approx 18.14$$

Part B

$$6.28 + 12.56 + 8.37 + 4.88 + 18.14 = 50.23$$

Area of the circle = $\pi r^2 = 16\pi \approx 50.24$
 (The slight difference in these values is due to the rounding in part a)

STA: MAFS.912.G-C.2.5

49 ANS:

One method is to use the distance formula to find AB , AC , and BC , and then check that these distances satisfy the equation from the Pythagorean Theorem.

Another method is to calculate the slopes of \overline{AB} and \overline{AC} and see if they are perpendicular by checking if the product of the slopes is -1 .

STA: MAFS.912.G-GPE.2.4

50 ANS: B STA: MAFS.912.G-MG.1.2

51 ANS: B, C, E STA: MAFS.912.G-MG.1.3

52 ANS:
3, -2

STA: MAFS.912.G-CO.1.5

53 ANS:

Statement 4

When two parallel lines are intersected by a transversal, alternate interior angles are congruent.

Reason 3

$$\overline{PQ} \cong \overline{RS}$$

Reason 5

ASA triangle congruence

Part D

\overline{PR} and \overline{SQ} have the same midpoint.

STA: MAFS.912.G-CO.3.11