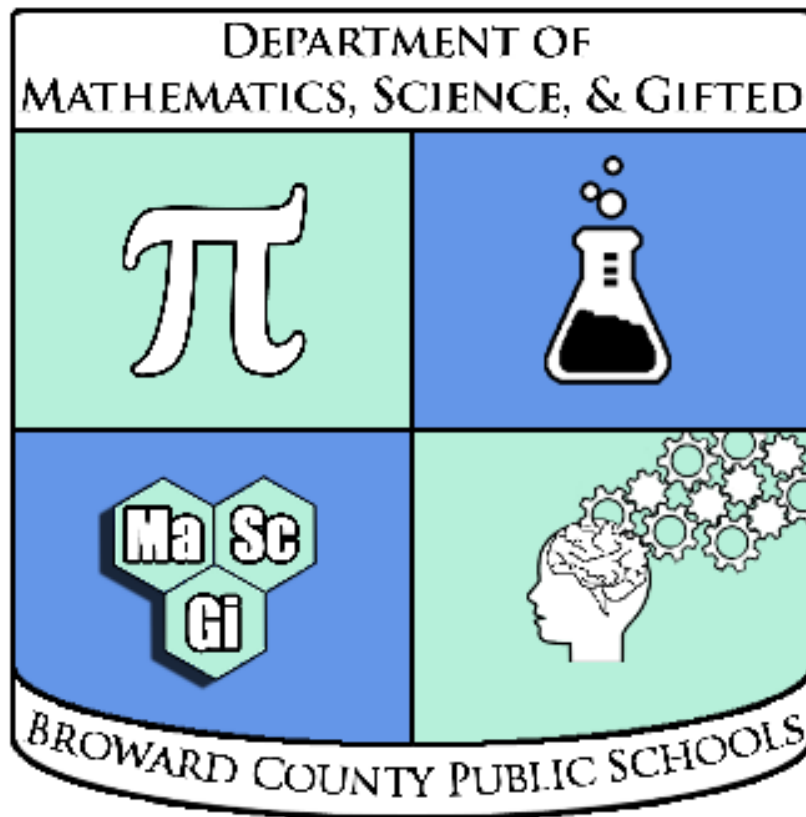


Name: _____

EOC FSA

Practice Test Key



Geometry

Calculator Portion

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

Geometry EOC FSA Practice Test (Calculator Portion)

Answer Section

1	ANS: A	STA: MAFS.912.G-SRT.1.1b	MSC: DOK 1
2	ANS: C	STA: MAFS.912.G-SRT.1.2	MSC: DOK 1
3	ANS: B	STA: MAFS.912.G-SRT.2.5	MSC: DOK 2
4	ANS: D	STA: MAFS.912.G-SRT.3.8	MSC: DOK 2
5	ANS: C	STA: MAFS.912.G-CO.3.10	MSC: DOK 3
6	ANS: D	STA: MAFS.912.G-SRT.3.8	MSC: DOK 3
7	ANS: C	STA: MAFS.912.G-C.1.2	MSC: DOK 2
8	ANS: A	STA: MAFS.912.G-C.1.3	MSC: DOK 2
9	ANS: B	STA: MAFS.912.G-C.2.5	
10	ANS: B	STA: MAFS.912.G-GMD.1.3	MSC: DOK 2
11	ANS: C	STA: MAFS.912.G-GMD.1.3	MSC: DOK 3
12	ANS: B	STA: MAFS.912.G-GMD.2.4	MSC: DOK 2
13	ANS: B	STA: MAFS.912.G-GMD.2.4	MSC: DOK 3
14	ANS: B	STA: MAFS.912.G-GPE.1.1	MSC: DOK 3
15	ANS: C	STA: MAFS.912.G-GPE.2.5	MSC: DOK 2
16	ANS: C	STA: MAFS.912.G-GPE.2.7	MSC: DOK 3
17	ANS: A	STA: MAFS.912.G-MG.1.2	MSC: DOK 2
18	ANS: D	STA: MAFS.912.G-MG.1.2	MSC: DOK 2
19	ANS: C	STA: MAFS.912.G-MG.1.3	MSC: DOK 2
20	ANS: C	STA: MAFS.912.G-MG.1.3	MSC: DOK 3
21	ANS: A, B, D	STA: MAFS.912.G-GPE.2.6	MSC: DOK 1
22	ANS: B, C, D	STA: MAFS.912.G-GPE.2.7	MSC: DOK 1
23	ANS: 11		

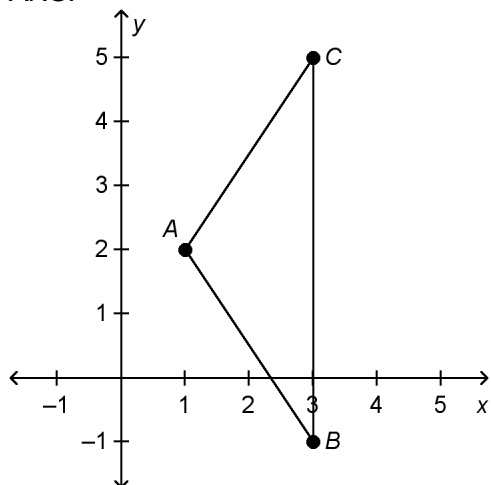
STA: MAFS.912.G-GPE.1.1 MSC: DOK 2

24 ANS:

Sample answer: first translate: $(x,y) \rightarrow (x+3,y+4)$ and then dilate: $(x,y) \rightarrow (1.5x,1.5y)$

STA: MAFS.912.G-CO.1.2 MSC: DOK 3

25 ANS:



$$AB = \sqrt{13}$$

$$AC = \sqrt{13}$$

$$BC = 6$$

Two of the sides of the triangle are congruent, so $\triangle ABC$ is an isosceles triangle.

Rubric

1 point for calculating side lengths;

1 point for drawing conclusion using the definition of isosceles triangle

STA: MAFS.912.G-CO.3.10

MSC: DOK 2

26 ANS:

Yes, the transformation involves a dilation with a scale factor of 3.

STA: MAFS.912.G-SRT.1.2

MSC: DOK 2

27 ANS:

17.69 ft

STA: MAFS.912.G-SRT.1.2

MSC: DOK 2

28 ANS:

Stefan is correct. Stefan's expression could be used to find the length of the side opposite the 29° angle, which represents the height of the ramp. Angela's expression could be used to find the length of the side adjacent to the 29° angle, which represents the horizontal distance from one end of the ramp to the other.

$$36 \sin 29^\circ \approx 17.5 \text{ in.}$$

Rubric

1 point for identifying the correct student; 1 point for explaining Angela's mistake; 1 point for correct height

STA: MAFS.912.G-SRT.3.8

MSC: DOK 3

29 ANS:

$$\frac{21\pi}{2} - 9\sqrt{3} - 9$$

STA: MAFS.912.G-C.2.5

MSC: DOK 3

30 ANS:

$$4 + \frac{3\sqrt{3}}{2\pi}$$

STA: MAFS.912.G-MG.1.1

MSC: DOK 3