Non-Calculator Part

1. The figure shows $\triangle ABC \sim \triangle DEF$ with side lengths as indicated.

Enter your answer in the box.





2. The figure shows two perpendicular lines *s* and *r* intersecting at point *P* in the interior of a trapezoid. Line *r* is parallel to the bases and bisects both legs of the trapezoid. Line *s* bisects both bases of the trapezoid.

Which transformation will always carry the figure onto itself? Select **all** that apply.

- A. a reflection across line *r*
- B. a reflection across line *s*
- C. a rotation of 90° clockwise about point *P*
- D. a rotation of 180° clockwise about point *P*
- E. a rotation of 270° clockwise about point *P*



3. The circle with center *F* is divided into sectors. In circle *F*, *EB* is a diameter. The radius of circle *F* is 3 units. Drag and drop each arc length to its subtended central angle.



- 4. A rectangle will be rotated 360° about a line which contains the point of intersection of its diagonals and is parallel to a side. What three-dimensional shape will be created as a result of the rotation?
 - A. a cube B. a rectangular prism
 - C. a cylinder D. a sphere
- 5. Line segment *JK* in the coordinate plane has endpoints with coordinates (-4, 11) and (8, -1). Graph \overline{JK} and find two possible locations for point *M* so that *M* divides \overline{JK} into two parts with lengths in a ratio of 1:3.

To graph a line segment, select "segment JK" and then plot two points on the coordinate plane. A segment will connect the points. Select "Point M" and then plot the two points.



6. The equation $x^2 + y^2 - 4x + 2y = b$ describes a circle.

Part A

Determine the *y*-coordinate of the circle.

Enter your answer in the box.



Part B

The radius of the circle is 7 units. What is the value of *b* in the equation?

Enter your answer in the box.



7. In the coordinate plane,

 $\triangle ABC$ has vertices at A(1, -2), B(1, 0.5), C(2, 1); and

 $\triangle DEF$ has vertices at D(4, -3), E(4, 2), F(6, 3).

Select from the drop-down menus to correctly complete the sentence.

The triangles are similar because ΔDEF is the image of ΔABC under a dilation with center

Choose (0, 0) (1, -2) (-2, -1)	and scale factor	Choose 2 3 4
---	------------------	-----------------------

Calculator Part

The Texas Instruments TI-84+ online graphing calculator will be available for the Infrastructure Trials, Field Tests and Operational Tests. However, it is not available at this time for the non-secure practice tests. Users wishing to access this calculator may navigate to the PARCC practice landing page (http://practice.parcc.testnav.com) and select the "Tutorials" tab for a link to a trial software version. Additionally, a handheld graphing calculator may be used to solve the math items in this section. Handheld calculator use is allowed during the PARCC test administration. Refer to PARCC's calculator policy for information about calculator use on the PARCC assessment, (see Section 2.9 of the Test Coordinator Manual at http://parcc.pearson.com/Manuals).

1. The figure shows $\triangle ABC$ inscribed in circle *D*.

If $m \angle CBD = 44^\circ$, find $m \angle BAC$.

Enter your answer in the box.





2. The figure shows lines *r*, *n*, and *p* intersecting to form angles numbered 1, 2, 3, 4, 5, and 6. All three lines lie in the same plane.

Based on the figure, which of the individual statements would provide enough information to conclude that line r is perpendicular to line p?

- A. $m \angle 2 = 90^{\circ}$
- B. $m \angle 6 = 90^{\circ}$
- C. $m \angle 3 = m \angle 6$
- D. $m \angle 1 + m \angle 6 = 90^{\circ}$
- E. $m \angle 3 + m \angle 4 = 90^{\circ}$
- F. $m \angle 4 + m \angle 5 = 90^{\circ}$



- 3. In right triangle *ABC*, $m \angle B \neq m \angle C$. Let $\sin B = r$ and $\cos B = s$. What is $\sin C - \cos C$?
 - A. r + sB. r - s
 - C. *s* − *r*

D. $\frac{r}{s}$



4. Triangle *ABC* is shown in the *xy*-coordinate plane.

The triangle will be rotated 180° clockwise around the point (3, 4) to create triangle A'B'C'.

Indicate whether each of the listed features of the image will or will not be the same as the corresponding feature in the original triangle by selecting the appropriate box in the table.



	The coordinates of A'	The coordinates of C'	The perimeter of $\Delta A'B'C'$	The area of $\Delta A'B'C'$	The measure of $\angle B'$	The slope of $\overline{A'C'}$
Will be the Same	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Will Not be the Same	0	\bigcirc	0	\bigcirc	\bigcirc	0

5. The figure shows two semi-circles with centers *P* and *M*. The semi-circles are tangent to each other at point *B*, and \overrightarrow{DE} is tangent to both semi-circles at *F* and *E*.



7. The equation $x^2 - 8x + y^2 = 9$ defines a circle in the *xy*-coordinate plane.

Select from the choices in the drop-down menus to complete the sentence.

To find the center of the circle and the length of the radius, the equation can be re-written as

(Choose x + 4 x - 4 x + 16 x - 16	$)^{2} + y^{2} =$	Choose 25 13 9 5
---	--	-------------------	------------------------------

8. The table shows the approximate measurements of the Great Pyramid of Giza in Egypt and the Pyramid of Kukulcan in Mexico.

Pyramid	Height (meters)	Area of Base (square meters)
Great Pyramid of Giza	147	52,900
Pyramid of Kukulcan	30	3,025

Approximately what is the difference between the volume of the Great Pyramid of Giza and the volume of the Pyramid of Kukulcan?

- A. 1,945,000 cubic meters
- B. 2,562,000 cubic meters
- C. 5,835,000 cubic meters
- D. 7,686,000 cubic meters
- 9. In the coordinate plane shown, $\triangle ABC$ has vertices A(-4, 6), B(2, 6), and C(2, 2).



What is the scale factor and the center of dilation that will carry $\triangle ABC$ onto $\triangle DEF$? Enter your answers in the boxes to complete the sentence.

The scale factor is and the center of dilation is at ().

10. An archaeological team is excavating artifacts from a sunken merchant vessel on the ocean floor. To help with the exploration, the team uses a robotic probe. The probe travels approximately 3,900 meters at an angle of depression of 67.4 degrees from the team's ship on the ocean surface down to the sunken vessel on the ocean floor. The figure shows a representation of the team's ship and the probe.



Select from the drop-down menus to correctly complete the sentence.

When the probe reaches the ocean floor, the probe will be approximately	Choose 1,247 1,500 1,623 3,377
	3,600

meters below the ocean surface. When the probe reaches the ocean floor, the horizontal distance of the probe behind the team's ship on the ocean surface will be approximately

Choose	
1,247	
1,500	motoro
1,623	meters.
3,377	
3,600	

11. Two cylinders each with a height of 50 inches are shown.

Which statements about cylinders P and S are true? Select **all** that apply.

- A. If x = y, the volume of cylinder P is greater than the volume of cylinder S, because cylinder P is a right cylinder.
- B. If x = y, the volume of cylinder P is equal to the volume of cylinder S, because the cylinders are the same height.



- C. If x = y, the volume of cylinder P is less than the volume of cylinder S, because cylinder S is slanted.
- D. If x < y, the area of a horizontal cross section of cylinder P is greater than the area of a horizontal cross section of cylinder S.
- E. If x < y, the area of a horizontal cross section of cylinder P is equal to the area of a horizontal cross section of cylinder S.
- F. If x < y, the area of a horizontal cross section of cylinder P is less than the area of a horizontal cross section of cylinder S.
- 12. Triangle *ABC* has vertices at A(1, 2), B(4, 6), and C(4, 2) in the coordinate plane.

The triangle will be reflected over the *x*-axis and then rotated 180° about the origin to form $\Delta A'B'C'$.

What are the vertices of $\Delta A'B'C'$?

- A. A'(1,-2), B'(4,-6), C'(4,-2)
- B. A'(-1,-2), B'(-4,-6), C'(-4,-2)
- C. A'(-1,2), B'(-4,6), C'(-4,2)
- D. A'(1,2), B'(4,6), C'(4,2)

13. A steel pipe in the shape of a right-circular cylinder is used for drainage under a road. The length of the pipe is 12 feet and its diameter is 36 inches. The pipe is open at both ends.

Part A

The outer surface of the pipe is coated with protective material. How many square feet is the outer surface of the pipe?

Give your answer to the nearest integer. Enter your answer in the box.



Part B

A wire screen in the shape of a square is attached at one end of the pipe to allow water to flow through but to keep people from wandering into the pipe. The length of the diagonals of the screen is equal to the diameter of the pipe. The figure represents the placement of the screen at the end of the pipe.



Select from the drop-down menus to correctly complete the sentence.

The perimeter of the screen is approximately



inches, and the area of



14. Triangle *ABC* is graphed in the coordinate plane with vertices A(1,1), B(3,4), and C(-1,8) as shown in the figure.



Part A

Triangle *ABC* will be reflected across the line y = 1 to form $\Delta A'B'C'$.

Select all quadrants of the *xy*-coordinate plane that will contain at least one vertex of $\Delta A'B'C'$.



Part B

What are the coordinates of B'?

Enter your answers in the boxes.



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15. The figure shows rectangle *ABCD* in the coordinate plane with point *A* at (0, 2.76), *B* at (3.87, 2.76), *C* at (3.87, 0), and *D* at the origin.

Rectangle *ABCD* can be used to approximate the size of the state of Colorado with the *x* and *y* axes representing hundreds of miles.



Part A

Based on the information given, how many miles is the perimeter of Colorado?

Enter your answer in the box.

miles

Part B

At the end of 2010, the population of Colorado was 5,029,196 people. Based on the information given, what was the population density at the end of 2010?

- A. 25 people per square mile
- B. 47 people per square mile
- C. 2,269 people per square mile
- D. 7,586 people per square mile

16. An unmanned aerial vehicle (UAV) is equipped with cameras to monitor forest fires. The figure represents a moment in time at which a UAV, at point B, flying at an altitude of 1,000 meters (m) is directly above point *D* on the forest floor.

> At the moment in time represented by the figure, the angle of depression from the UAV to the fire has a measure of 30°.



Part A

At the moment in time represented by the figure, what is the distance from the UAV to the fire? Enter your answer in the box.

Part B

What is the distance, to the nearest meter, from the fire to point *D*? Enter your answer in the box.



Part C



17. The figure shows a circle with center *P*, a diameter \overline{BD} , and inscribed $\triangle BCD$. PC = 10. Let $m \angle CBE = x^{\circ}$ and $m \angle BCD = (x + 54)^{\circ}$.



Part A

Find the value of x.

Enter your answer in the box.

x =

Part B

Select from the drop-down menus to correctly complete the sentence.

The length of \overline{CD} is	Choose 10 less than 10 greater than 10	because	Choose $\triangle CPD$ is equilateral $m \angle CPD < 60^{\circ}$ $m \angle CPD > 60^{\circ}$
----------------------------------	---	---------	--

18. Use the information provided in the animation to answer the questions about the geometric construction. (*note: an online video plays demonstrating the construction*.)



Part A

The first step of the construction is to draw an arc centered at point A that intersects both sides of the given angle. What is established by the first step?

- A. $\overline{AB} \cong \overline{BC}$
- B. $\overline{AB} \cong \overline{AC}$
- C. $\overline{AD} \cong \overline{AC}$
- D. $\overline{BD} \cong \overline{CD}$

Part B

Select from the drop-down menus to correctly complete the sentence.

The construction creates congruent triangles. Triangle *ABD* and $\triangle ACD$ are congruent

because of the	Choose side, side angle, side side, ang	e, side le, angle le, side	theorem.	It follows that \overrightarrow{AD} must be the angle
bisector of $\angle BA$	IC because	Choose ∠ACD ∠BAC ∠BAD ∠BAD	$\begin{array}{l} \cong \angle ABD \\ \cong \angle BDC \\ \cong \angle CAD \\ \cong \angle ABD \end{array}$	

19. One method that can be used to prove that the diagonals of a parallelogram bisect each other is shown in the given partial proof.



Given: Quadrilateral PQRS is a parallelogram.

Prove: $PT = RT$ and $ST = Q$	Prove:	PT =	RT	and	ST =	QT
-------------------------------	--------	------	----	-----	------	----

Statements	Reasons
1. Quadrilateral PQRS	1. Given
is a parallelogram	
2. <u>PQ</u> <u>SR</u>	2. Definition of
$\overline{PS} \mid\mid \overline{QR}$	parallelogram
$3. \angle PQS \cong \angle RSQ$	3. ?
$\angle QPR \cong \angle SRP$	
4. ?	4. Opposite sides of a
	Parallelogram are
	congruent
$5. \triangle SRT \cong \triangle QPT$	5. ?
6. $\overline{PT} \cong \overline{RT}$	6. Corresponding parts
$\overline{ST} \cong \overline{QT}$	of congruent
C C	triangles
	are congruent
7. $PT = RT$	7. Definition of
ST = QT	congruent
	line segments

Part A

Which reason justifies the statement for step 3 in the proof?

- A. When 2 parallel lines are intersected by a transversal, same side interior angles are congruent.
- B. When 2 parallel lines are intersected by a transversal, alternate interior angles are congruent.
- C. When 2 parallel lines are intersected by a transversal, same side interior angles are supplementary.
- D. When 2 parallel lines are intersected by a transversal, alternate interior angles are supplementary.

Part B

Which statement is justified by the reason in step 4?

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

B.
$$\overline{PQ} \cong \overline{SP}$$

- C. $\overline{PT} \cong \overline{TR}$
- D. $\overline{SQ} \cong \overline{PR}$

Part C

Which reason justifies the statement for step 5 in the proof?

- A. side-side triangle congruence
- B. side-angle-side triangle congruence
- C. angle-side-angle triangle congruence
- D. angle-angle-side triangle congruence

19. (continued)

Part D

Another method of proving diagonals of a parallelogram bisect each other uses a coordinate grid.



What could be shown about the diagonals of parallelogram *PQRS* to complete the proof?

- A. \overline{PR} and \overline{SQ} have the same length.
- B. \overline{PR} is a perpendicular bisector of \overline{SQ} .
- C. \overline{PR} and \overline{SQ} have the same midpoint.
- D. Angles formed by the intersection of \overline{PR} and \overline{SQ} each measure 90°.

20. A spring is attached at one end to support *B* and at the other end to collar *A*, as represented in the figure. Collar *A* slides along the vertical bar between points *C* and *D*. In the figure, the angle θ is the angle created as the collar moves between points *C* and *D*.



Part A

When $\theta = 28^{\circ}$, what is the distance from point *A* to point *B* to the nearest tenth of a foot?

Enter your answer in the box.

feet

Part B

When the spring is stretched and the distance from point *A* to point *B* is 5.2 feet, what is the value of θ to the nearest tenth of a degree?

- A. 35.2°
- B. 45.1°
- C. 54.8°
- D. 60.0°

21. Quadrilaterals *ABCD* and *EFGH* are shown in the coordinate plane.



Part A

Quadrilateral *EFGH* is the image of *ABCD* after a transformation or sequence of transformations.

Which could be the transformation or sequence of transformations? Select **all** that apply.

- A. a translation of 3 units to the right, followed by a reflection across the *x*-axis
- B. a rotation of 180° about the origin
- C. a translation of 12 units downward, followed by a reflection across the *y*-axis
- D. a reflection across the *y*-axis followed by a reflection across the *x*-axis
- E. a reflection across the line with equation y = x

Part B

Quadrilateral *ABCD* will be reflected across the *x*-axis and the rotated 90° clockwise about the origin to create quadrilateral A'B'C'D'. What will be the *y*-coordinate of *B*'?

Enter your answer in the box.



22. Point *B* is the center of a circle, and \overline{AC} is a diameter of the circle. Point *D* is a point on the circle different from *A* and *C*.

Part A

Drag and drop the following choices into the boxes to indicate which statements are always true, sometimes true or never true.

Always True	Always True Sometimes True		
Statements			
AD > CD			
$m \angle CBD = \frac{1}{2} (m \angle CAD)$			
$m \angle CBD = 90^{\circ}$			
$m \angle ABD = 2(m \angle CBD)$			

Part B

If $m \angle BDA = 20^\circ$, what is $m \angle CBD$?

A. 20°
B. 40°
C. 70°
D. 140°

23. In the figure shown, \overleftarrow{CF} intersects \overleftarrow{AD} and \overleftarrow{EH} at points *B* and *F* respectively.



Part A

- Given: $\angle CBD \cong \angle BFE$
- Prove: $\angle ABF \cong \angle BFE$

Select from the drop-down menus to support each line of the proof.

Statement: $\angle CBD \cong \angle BFE$	Reason: Choose Given Definition of congruent angles Vertical angles are congruent Reflexive property of congruence Symmetric property of congruence
Statement: $\angle CBD \cong \angle ABF$	Transitive property of congruenceReason: ChooseGivenDefinition of congruent anglesVertical angles are congruentReflexive property of congruenceSymmetric property of congruenceTransitive property of congruence
Statement: $\angle ABF \cong \angle BFE$	Reason: Choose Given Definition of congruent angles Vertical angles are congruent Reflexive property of congruence Symmetric property of congruence Transitive property of congruence

23. (continued)

In the figure shown, \overleftarrow{CF} intersects \overleftarrow{AD} and \overleftarrow{EH} at points *B* and *F* respectively.



Part B

- Given: $m \angle CBD = m \angle BFE$
- Prove: $m \angle BFE + m \angle DBF = 180^{\circ}$

Select from the drop-down menus to support each line of the proof.

Statement: $m \angle CBD = m \angle BFE$	Reason: Choose Given Angles that form a linear pair are supplementary Angles that are adjacent are supplementary Reflexive property of equality Substitution property of equality Transitive property of equality
Statement: $m \angle CBD + m \angle DBF = 180^{\circ}$	Reason: Choose Given Angles that form a linear pair are supplementary Angles that are adjacent are supplementary Reflexive property of equality Substitution property of equality Transitive property of equality
Statement: $m \angle BFE + m \angle DBF = 180^{\circ}$	Reason: Choose Given Angles that form a linear pair are supplementary Angles that are adjacent are supplementary Reflexive property of equality Substitution property of equality Transitive property of equality

24. Luke purchased a warehouse on a plot of land for his business. The figure represents a plan of the land showing the location of the warehouse and parking area. The coordinates represent points on a rectangular grid with units in feet.



Part B

What is the area of the plot of land that does **not** include the warehouse and the parking area?

Enter your answer in the box.

square feet

Part C

Luke is planning to put a fence along two interior sides of the parking area. The sides are represented in the plan by the legs of the trapezoid. What is the total length of fence needed?

Express your answer to the nearest tenth of a foot.

Enter your answer in the box.



Part D

In the future, Luke has plans to construct a circular storage bin centered at coordinates (50, 40) on the plan. Which of the listed measurements could be the diameter of the bin that will fit on the plot and be **at least** 2 feet away from the warehouse?

Select **all** that apply.

A.	10 feet	B.	15 feet	С.	18 feet
	D.	22 feet	E.	25 feet	

25. The figure shows line r, points P and T on line r, and point Q not on line r. Also shown is ray PQ.



Part A

Consider the partial construction of a line parallel to *r* through point *Q*. What would be the final step in the construction?

- A. draw a line through *P* and *S*
- B. draw a line through Q and S
- C. draw a line through T and S
- D. draw a line through W and S

Part B

Once the construction is complete, which of the reasons listed contribute to proving the validity of the construction?

- A. When two lines are cut by a transversal and the corresponding angles are congruent, the lines are parallel.
- B. When two lines are cut by a transversal and the vertical angles are congruent, the lines are parallel.
- C. Definition of a segment bisector
- D. Definition of an angle bisector



Practice Test Answer and Alignment Document Mathematics: Geometry End-of-Year Assessment

Partnership for Assessment of Readiness for College and Careers

Item Numbor	Answer Key	Evidence Statement Kovs
Tumber	Part 1:	Statement Keys
	Non-Calculator	I
1	15	G-SRT.5
2	В	G-CO.3
	Subtended Central Angle Arc Length	
	$\angle AFB$ 2π	
	$\angle BFC$ $\frac{3\pi}{4}$	
	$\angle CFD \qquad \frac{\pi}{2}$	
3	$\angle AFE$ π	G-C.B.Int.1
4	C	G-GMD.4
5		G-GPE.6
6	Part A: -1 Part B: 44	G-GPE.1-2
7	The triangles are similar because $\triangle DEF$ is the image of $\triangle ABC$ under a dilation with center (-2, -1) • and scale factor •.	G-SRT.2

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	Part 2: Calculator	
1	46	G-C.A.Int.1
2	B, F	G-CO.1
3	С	G-SRT.7-2
	$ \begin{array}{ c c c c c c } \hline The & The & The perimeter \\ coordinates of \\ A' & C' & of \bigtriangleup A'B'C' & \measuredangle A'B'C' & \measuredangle B' \\ \hline The area of & The \\ measure of \\ \measuredangle B' & \frown A'B'C' & \measuredangle B' \\ \hline The area of & The \\ measure of \\ \measuredangle B' & \frown A'B' \\ \hline The area of & The \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \frown A'B'C' & \blacksquare \\ \hline The area of & \blacksquare \\ \hline The $	lope C'
	Will be the Same • • • • •)
4	Will Not be the Same	G-CO.6
5	D	G-SRT.5
	Use the choices in the drop-down menus to complete the sentence. Line $A'C'$ will be parallel to \overrightarrow{AC} and line $\overrightarrow{P'Q'}$ with	11
6	be the same line as \overrightarrow{PQ} .	G-SRT.1a
7	$(x-4)^2 + y^2 = 25 $	G-GPE.1-2
8	В	G-GMD.3
	The scale factor is 0.5 and the center of dilation is a	ıt
9	(0 , 0).	G-SRT.1b
	When the probe reaches the ocean floor, the probe will be approximately 3,600 meters below the ocean surface. When the probe reaches the ocean floor, the horizontal distance of probe behind the team's ship on the ocean surface will be approximately 1,500	f the
10	meters.	G-SRT.8
11	B, F	G-GMD.1
12	С	G-CO.6
13	Part A: 113 Part B:	
	The perimeter of the screen is approximately 102 inches, and the area of the screen	en is
	648 square inches.	G-Int.1

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C Practice Test Answer and Alignment Document Mathematics: Geometry End-of-Year Assessment

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14	Part A	
15	Part B (3,-2)	G-CO.5
15	Part A : 1520 Part B · B	G Int 1
16	$P_{art} \Delta \cdot 2000$	0-1111.1
10	Part B: 1732	
	Part C: B	
	Part D: C	G-SRT.8
17	Part A: 36	
	Part B:	
	The length of <i>CD</i> is greater than 10 \checkmark because $\frac{m^2CPD > 60^\circ}{\checkmark}$	G-C.A.Int.1
18	Part A : B	
	Part B:	
	The construction creates congruent triangles. Triangle ABD and $\triangle ACD$ are	
	congruent because of the side, side, side, it theorem. It follows that \overrightarrow{AD}	
	congruent because of the reast, and reast, a	
	must be the angle bisector of $\angle BAC$ because $\angle BAD \cong \angle CAD$.	G-CO.D
19	Part A: B	
	Part B: A	
	Part C: C	~ ~ ~ ~
20	Part D: C	G-CO.C
20	Part A: 3.4 Deat Di C	CCDTO
21	Part D: C	U-SK1.8
21	Part A: D, D Dart B: 3	G CO 5
	1 at D. J	0-00.5

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22	Part A:		
	Statements		
	AD > CD	Sometimes True	
	$m \angle CBD = \frac{1}{2} (m \angle CAD)$	Never True	
	$m \angle CBD = 90^{\circ}$	Sometimes True	
	$m \angle ABD = 2(m \angle CBD)$	Sometimes True	
	Part B: B		G-C.A.Int.1
	Statement: $\angle CBD \cong \angle BFE$ Reason: Statement: $\angle CBD \cong \angle ABF$ Reason: Statement: $\angle ABF \cong \angle BFE$ Reason: Part B: Statement: $m\angle CBD = m\angle BFE$ Reason Statement: $m\angle CBD + m\angle DBF = 180^{\circ}$ Angles that form a linear pair	Given Vertical angles are congruent Transitive property of congrue Given Given Reason:	
	Statement: $m \angle BFE + m \angle DBF = 180^{\circ}$ Substitution property of eque	Reason:	G-CO.C
24	Part A: 243.2 Part B: 1740 Part C: 42.8 Part D: A. B. C.		G-Int 1
25	Part A: B		
	Part B: A		G-CO.D

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M

4

Η