Short-Answer Questions

 $Short\text{-}answer\ questions\ about\ definitions.$

Question 1	An equilateral quadrilateral is called a rhombus.
Question 2	An equiangular quadrilateral is called a rectangle.
Question 3	An regular quadrilateral is called a square.
Question 4 of the circle	An line segment between two points on a circle is called a chord.
Question 5	A $\boxed{straightangle}$ measures 180°. (Hint: Answer with two words.)
Question 6	Two angles whose measures sum to 180° are said to be supplementary
Question 7	Two angles whose measures sum to 90° are said to be complementary.
Question 8 [collinear].	Three (or more) points that lie on the same line are said to be
Question 9 concurrent	Three (or more) lines that lie on the same point are said to be .
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Question 10 In a circle, the measure of an <u>inscribed</u> angle is <u>half</u> the measure of the corresponding central angle. (Hint: For the second blank, answer with a word.)

Question 11 An altitude in a triangle ...

Multiple Choice:

- (a) contains the midpoint of the side of a triangle and is perpendicular to that side.
- (b) contains a vertex of a triangle and is perpendicular to the line containing the other side. \checkmark
- (c) contains a vertex of a triangle and the midpoint of the opposite side.
- (d) contains a vertex and bisects that angle.
- (e) none of these.

Question 12 A median in a triangle . . .

Multiple Choice:

- (a) contains the midpoint of the side of a triangle and is perpendicular to that side.
- (b) contains a vertex of a triangle and is perpendicular to the line containing the other side.
- (c) contains a vertex of a triangle and the midpoint of the opposite side. \checkmark
- (d) contains a vertex and bisects that angle.
- (e) none of these.

Question 13 . The circumcenter of a triangle is . . .

Select All Correct Answers:

(a) the point of concurrency of the medians.

- (b) the point of concurrency of the angle bisectors.
- (c) the point of concurrency of the perpendicular bisectors. \checkmark
- (d) the point of concurrency of the altitudes.
- (e) the balance point for the triangle.
- (f) the center in the triangle.
- (g) the center of the incircle.
- (h) the center of the circumcircle. \checkmark
- (i) equidistant from the sides of the triangle.
- (j) equidistant from the vertices of the triangle. \checkmark

Question 14 The **incenter** of a triangle is . . . [select all]

Select All Correct Answers:

- (a) the point of concurrency of the medians.
- (b) the point of concurrency of the angle bisectors. \checkmark
- (c) the point of concurrency of the perpendicular bisectors.
- (d) the point of concurrency of the altitudes.
- (e) the balance point for the triangle.
- (f) the center in the triangle.
- (g) the center of the incircle. \checkmark
- (h) the center of the circumcircle.
- (i) equidistant from the sides of the triangle. \checkmark
- (j) equidistant from the vertices of the triangle.

Question 15 The centroid of a triangle is ...

Select All Correct Answers:

(a) the point of concurrency of the medians. \checkmark

- (b) the point of concurrency of the angle bisectors.
- (c) the point of concurrency of the perpendicular bisectors.
- (d) the point of concurrency of the altitudes.
- (e) the balance point for the triangle. \checkmark
- (f) the center in the triangle.
- (g) the center of the incircle.
- (h) the center of the circumcircle.
- (i) equidistant from the sides of the triangle.
- (j) equidistant from the vertices of the triangle.

Question 16 The **orthocenter** of a triangle is . . .

Select All Correct Answers:

- (a) the point of concurrency of the medians.
- (b) the point of concurrency of the angle bisectors.
- (c) the point of concurrency of the perpendicular bisectors.
- (d) the point of concurrency of the altitudes. \checkmark
- (e) the balance point for the triangle.
- (f) the center in the triangle.
- (g) the center of the incircle.
- (h) the center of the circumcircle.
- (i) equidistant from the sides of the triangle.
- (j) equidistant from the vertices of the triangle.

Question 17 A midsegment in a triangle is . . .

Select All Correct Answers:

(a) a segment in the middle.

- (b) a segment connecting the midpoints of two sides. \checkmark
- (c) parallel to a side of the triangle. \checkmark
- (d) perpendicular to a side of the triangle.
- (e) also called a median.