Vocabulary Review

Short-answer, multiple-choice, and select-all questions about key vocabulary.

Question   **1**   *An **equilateral quadrilateral** is called a* $\boxed{rhombus}$.

Question   **2**   *An **equiangular quadrilateral** is called a* $\boxed{rectangle}$.

Question   **3**   *An **regular quadrilateral** is called a* $\boxed{square}$.

Question   **4**   *A* $\boxed{straightangle}$ *measures* 180°. *(Hint: Answer with two words.)*

Question   **5**   *Two angles whose measures sum to* 180° *are said to be* $\boxed{supplementary}$.

Question   **6**   *Two angles whose measures sum to* 90° *are said to be* $\boxed{complementary}$.

Question   **7**   *Three (or more) points that lie on the same line are said to be* $\boxed{collinear}$.

Question   **8**   *Three (or more) lines that lie on the same point are said to be* $\boxed{concurrent}$.

Question   **9**   *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.* ✓

(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   10   *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.* ✓

(d) *contains a vertex and bisects that angle.*

(e) *none of these.*

Question   11   *The **circumcenter** 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.*

(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.*

(h) *the center of the circumcircle.* ✓

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.* ✓

Question   12   *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.* ✓

(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.* ✓

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.* ✓

(j) *equidistant from the vertices of the triangle.*

Question   13   *The **centroid** 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.*

(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.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

Question 14 *The* **orthocenter** *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.*

(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.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

Question 15 *A* **midsegment** *in a triangle is . . . [select all]*

Select All Correct Answers:

(a) *a segment in the middle.*

(b) *a segment connecting the midpoints of two sides.* ✓

(c) *parallel to a side of the triangle.* ✓

(d) *perpendicular to a side of the triangle.*

(e) *also called a median.*