

Vocabulary Review

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

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 A straightangle measures 180° . (Hint: Answer with two words.)

Question 5 Two angles whose measures sum to 180° are said to be supplementary.

Question 6 Two angles whose measures sum to 90° are said to be complementary.

Question 7 Three (or more) points that lie on the same line are said to be collinear.

Question 8 Three (or more) lines that lie on the same point are said to be concurrent.

Question 9 An *altitude* in a triangle ...

Learning outcomes:

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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.
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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.
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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. ✓*
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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.*
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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.*
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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.*
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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.*
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