Important Definitions

 ${\it Multiple-choice \ and \ select-all \ questions \ about \ definitions.}$

Ques	Question 1 An equilateral quadrilateral is called		
Mul	le Choice:		
(a)	square.		
(b)	rectangle.		
(c)	rhombus. ✓		
(d)	trapezoid.		
	one of these. on 2 An equiangular quadrilateral is called		
Ques			
Que:	on 2 An equiangular quadrilateral is called		
Ques Mula (a)	on 2 An equiangular quadrilateral is called le Choice:		
Ques Mult (a) (b)	on 2 An equiangular quadrilateral is called le Choice: square.		
Ques Mult (a) (b) (c)	on 2 An equiangular quadrilateral is called le Choice: square. rectangle. ✓		
Ques Mult (a) (b)	on 2 An equiangular quadrilateral is called le Choice: square. rectangle. ✓		
(a) (b) (c) (d)	on 2 An equiangular quadrilateral is called le Choice: square. rectangle. ✓ rhombus.		

 $are \dots$

Multiple Choice:

(a) coplanar.

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	conjoined.
(d)	concurrent.
(e)	none of these.
0	
are .	stion 4 When three (or more) lines all lie on the same point, we say they
Mult	ciple Choice:
(a)	coplanar.
(b)	collinear.
(c)	conjoined.
(d)	concurrent. ✓
(e)	none of these.
Ques	stion 5 An altitude in a triangle
	stion 5 An altitude in a triangle siple Choice:
Mult	ciple Choice:
Mult (a)	ciple Choice: contains the midpoint of the side of a triangle and is perpendicular to that side.
(a)	ciple Choice: contains the midpoint of the side of a triangle and is perpendicular to that side. contains a vertex of a triangle and is perpendicular to the line containing
(a) (b) (c)	contains the midpoint of the side of a triangle and is perpendicular to that side. contains a vertex of a triangle and is perpendicular to the line containing the other side. ✓
(a) (b) (c) (d)	contains the midpoint of the side of a triangle and is perpendicular to that side. contains a vertex of a triangle and is perpendicular to the line containing the other side. contains a vertex of a triangle and the midpoint of the opposite side.

(b) collinear. ✓

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 7 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 8 The incenter 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. \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 9 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 10 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

Important Definitions

- (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 11 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.