

Name: _____

Date _____

Topic: *Midpoint of the segment- Worksheet 1*

Do the following:

1. Find the midpoint of the segment connecting the points $(4,4)$ and $(5,6)$.
2. Find the midpoint of the segment connecting the points $(11,15)$ and $(22,15)$.
3. P is the midpoint of DE . The coordinates of D are $(4, 6)$ and the coordinates of P are $(2, 3)$. Find the coordinates of E .
4. The coordinates of quadrilateral $ABCD$ are $A(3,4)$, $B(2,7)$, $C(2,8)$, and $D(5,3)$. Do the diagonals bisect each other?
5. N is the midpoint of XY . The coordinates of X are $(6, 3)$ and the coordinates of N are $(4, 6)$. Find the coordinates of Y .
6. Find the midpoint of the segment connecting the points $(2,4)$ and $(-5,-4)$.
7. Find the midpoint of the segment connecting the points $(3, 4)$ and $(5, 7)$.
8. Find the midpoint of the segment connecting the points (p, r) and (p, s) .
9. L is the midpoint of JK . The coordinates of J are $(-3, 2)$ and the coordinates of L are $(-3, -2)$. Find the coordinates of K .
10. The coordinates of quadrilateral $DEFG$ are $D(-3,-5)$, $E(-4,3)$, $F(2,6)$, and $G(3,-2)$. Do the diagonals bisect each other?



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Topic : *Midpoint of the segment- Worksheet 2*

Do the following:

1. Find the midpoint of the segment connecting the points $(3, 5)$ and $(6, 7)$.
2. Find the midpoint of the segment connecting the points $(10, 12)$ and $(20, 14)$.
3. C is the midpoint of PQ . The coordinates of P are $(5, 4)$ and the coordinates of C are $(3, 4)$. Find the coordinates of Q .
4. The coordinates of quadrilateral $LMNO$ are $L(4, 5)$, $M(3, 6)$, $N(4, 6)$, and $O(5, 5)$. Do the diagonals bisect each other?
5. L is the midpoint of RS . The coordinates of R are $(5, 2)$ and the coordinates of L are $(4.5, 5)$. Find the coordinates of S .
6. Find the midpoint of the segment connecting the points $(3, 6)$ and $(-4, -6)$.
7. Find the midpoint of the segment connecting the points $(4, 5)$ and $(6, 8)$.
8. Find the midpoint of the segment connecting the points (b, d) and (b, e) .
9. K is the midpoint of ST . The coordinates of S are $(-4, 5)$ and the coordinates of K are $(-4, -3)$. Find the coordinates of T .
10. The coordinates of quadrilateral $ABCD$ are $A(-4, -6)$, $B(-3, 4)$, $C(3, 5)$, and $D(5, 4)$. Do the diagonals bisect each other?



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Topic : *Midpoint of the segment- Worksheet 3*

Do the following:

1. Find the midpoint of the segment connecting the points $(2,4)$ and $(5,6)$.
2. Find the midpoint of the segment connecting the points $(8,10)$ and $(22,6)$.
3. O is the midpoint of YZ . The coordinates of Y are $(4, 6)$ and the coordinates of O are $(2, 5)$. Find the coordinates of Z .
4. The coordinates of quadrilateral $HIJK$ are $H(5,6)$, $I(4,7)$, $J(5,7)$, and $K(6,6)$. Do the diagonals bisect each other?
5. N is the midpoint of GH . The coordinates of G are $(4, 3)$ and the coordinates of N are $(5, 6)$. Find the coordinates of H .
6. Find the midpoint of the segment connecting the points $(4, 7)$ and $(-3,-5)$.
7. Find the midpoint of the segment connecting the points $(6, 8)$ and $(5, 4)$.
8. Find the midpoint of the segment connecting the points (x,y) and (x,z) .
9. F is the midpoint of MN . The coordinates of M are $(-5,6)$ and the coordinates of F are $(-3,-5)$. Find the coordinates of N .
10. The coordinates of quadrilateral $JKLM$ are $J(-3,-7)$, $K(-4,6)$, $L(5,8)$, and $M(6,5)$. Do the diagonals bisect each other?



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Topic : *Midpoint of the segment- Worksheet 4*

Do the following:

1. Find the midpoint of the segment connecting the points $(3,6)$ and $(6,3)$.
2. Find the midpoint of the segment connecting the points $(9,11)$ and $(7,9)$.
3. D is the midpoint of AB . The coordinates of A are $(5, 7)$ and the coordinates of D are $(3,8)$. Find the coordinates of B .
4. The coordinates of quadrilateral $WXYZ$ are $W(4,7)$, $X(3,5)$, $Y(7,8)$, and $Z(8,10)$. Do the diagonals bisect each other?
5. P is the midpoint of MN . The coordinates of M are $(5, 2)$ and the coordinates of P are $(7, 5)$. Find the coordinates of N .
6. Find the midpoint of the segment connecting the points $(5, 6)$ and $(-2,-7)$.
7. Find the midpoint of the segment connecting the points $(7, 9)$ and $(6, 2)$.
8. Find the midpoint of the segment connecting the points (s,t) and (s,n) .
9. J is the midpoint of LM . The coordinates of L are $(-4,7)$ and the coordinates of J are $(-2,-3)$. Find the coordinates of M .
10. The coordinates of quadrilateral $STUV$ are $S(-4,-3)$, $T(-6,5)$, $U(6,5)$, and $V(8,-3)$. Do the diagonals bisect each other?



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Topic : *Midpoint of the segment- Worksheet 5*

Do the following:

1. Find the midpoint of the segment connecting the points $(4,8)$ and $(3,7)$.
2. Find the midpoint of the segment connecting the points $(7,9)$ and $(11,13)$.
3. Q is the midpoint of RS . The coordinates of R are $(6, 3)$ and the coordinates of Q are $(5,4)$. Find the coordinates of S .
4. The coordinates of quadrilateral $ABCD$ are $A(5,9)$, $B(6,4)$, $C(2,4)$, and $D(1,9)$. Do the diagonals bisect each other?
5. J is the midpoint of FG . The coordinates of F are $(6, 4)$ and the coordinates of J are $(8, 3)$. Find the coordinates of G .
6. Find the midpoint of the segment connecting the points $(4,8)$ and $(-3,-6)$.
7. Find the midpoint of the segment connecting the points $(9, 8)$ and $(7, 6)$.
8. Find the midpoint of the segment connecting the points (k,g) and (k,h) .
9. L is the midpoint of PQ . The coordinates of P are $(-3,8)$ and the coordinates of L are $(-1,-4)$. Find the coordinates of Q .
10. The coordinates of quadrilateral $DEFG$ are $D(-3,-2)$, $E(-5,3)$, $F(7,9)$, and $G(7,-4)$. Do the diagonals bisect each other?

