Geometry Practice G.CO.C.10: Midsegments www.jmap.org

- 1. Solve for x given $BD = \frac{5}{2}x + 3$ and AE =
 - 6x+4. Assume *B* is the midpoint of \overline{AC} and *D* is the midpoint of \overline{CE} .



2. Solve for x given $BD = \frac{7}{2}x + 2$ and AE =

3x+6. Assume *B* is the midpoint of \overline{AC} and *D* is the midpoint of \overline{CE} .



3. Solve for x given BD = 5x + 2 and AE = 9x + 6. Assume B is the midpoint of \overline{AC} and D is the midpoint of \overline{CE} .



4. Solve for x given BD = 4x + 2 and AE = 6x + 8. Assume B is the midpoint of \overline{AC} and D is the midpoint of \overline{CE} .



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5. Find the area of the rectangle if $\overline{AC} = 11$ and $\overline{BD} = 22$.



6. Find the area of the rectangle if $\overline{AC} = 15$ and $\overline{BD} = 24$.



7. Find the area of the rectangle if AC = 14 and BD = 30.

[D] 90



NAME:

8. Find the area of the rectangle if AC = 16 and BD = 24.



9. Find the values of *x* and *y*.



- [A] $x = 3\frac{1}{2}, y = 25$ [B] $x = 3\frac{1}{2}, y = 12\frac{1}{2}$ [C] $x = 3\frac{1}{2}, y = 24$
- [D] none of the above
- 10. The Great Pyramid near Cairo is one of history's most spectacular achievements. Its base covers an area large enough to hold 10 football fields. If the base of a pyramid is a square 400 m on a side, how long would a walkway that went around the entire pyramid halfway up be?

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[1] A
[2] B
[3] 2
[4] 2
[5] D
[6] D
[7] 105
[8] 96
[9] C
[10] 800 m