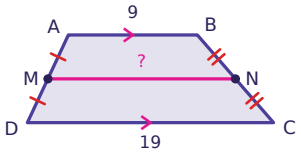
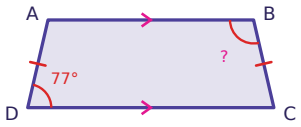
**Task card 1** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 9 and DC = 19. Find MN.



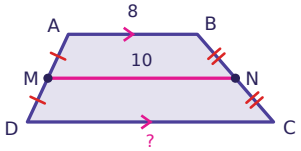

**Task card 2** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = 77°. Find m∠B.



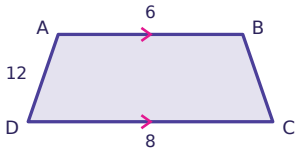

**Task card 3** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 10 and AB = 8. Find DC.



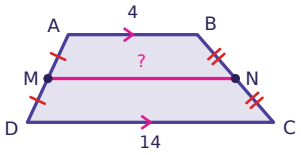

**Task card 4** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 6, DC = 8 and AD = 12. Find the perimeter of ABCD.



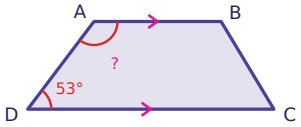

**Task card 5** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 4 and DC = 14. Find MN.



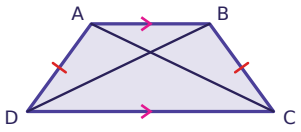

**Task card 6** Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = 53°. Find m∠A.



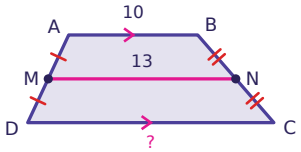
**Task card 7** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. BD = 21. Find AC.



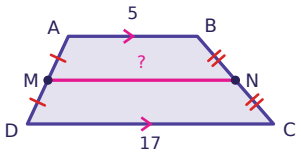

**Task card 8** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 13 and AB = 10. Find DC.



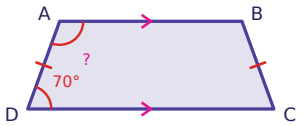

**Task card 9** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 5 and DC = 17. Find MN.



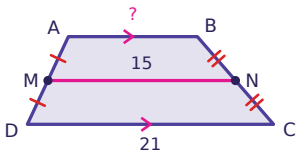

**Task card 10** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = 70°. Find m∠A.



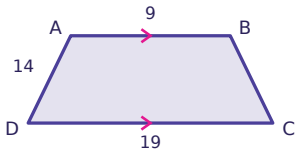

**Task card 11** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 15 and DC = 21. Find AB.



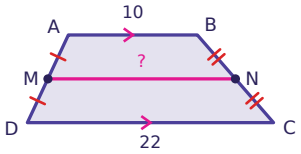

**Task card 12** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 9, DC = 19 and AD = 14. Find the perimeter of ABCD.



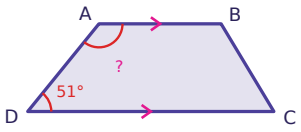
**Task card 13** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 10 and DC = 22. Find MN.



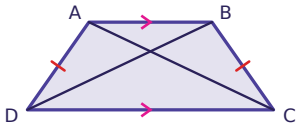

**Task card 14** Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = 51°. Find m∠A.



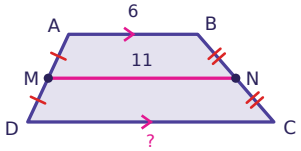

**Task card 15** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. BD = 8. Find AC.



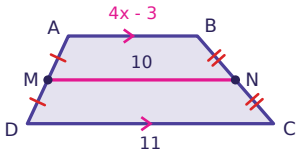

**Task card 16** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 11 and AB = 6. Find DC.



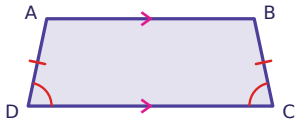

**Task card 17** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 4x - 3, DC = 11 and MN = 10. Find x.



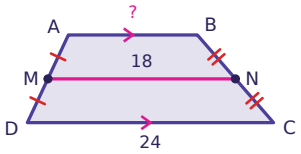

**Task card 18** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = (5x + 43)° and m∠C = (7x + 29)°. Find x.



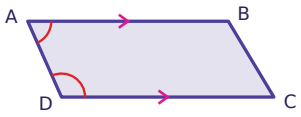
**Task card 19** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 18 and DC = 24. Find AB.



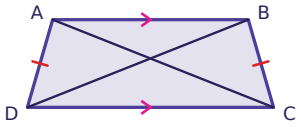

**Task card 20** Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (12x + 90)° and m∠A = (13x + 40)°. Find x.



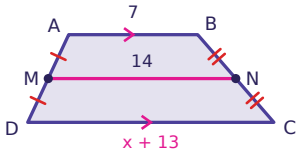

**Task card 21** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = 4x + 25 and BD = 2x + 33. Find x.



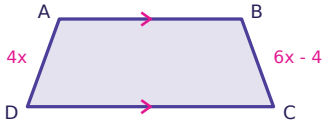

**Task card 22** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 7, DC = x + 13 and MN = 14. Find x.



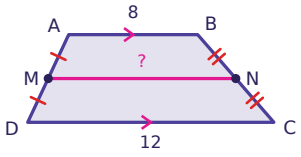

**Task card 23** Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = 4x and BC = 6x - 4. Find x.




**Task card 24** Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 8 and DC = 12. Find MN.



# Trapezoids: Midsegments, Angles & Diagonals Task Cards

Recording sheet · Grade 10 · In each trapezoid ABCD, AB ∥ DC, with AB on top. When M and N are shown, they are the midpoints of the legs AD and BC, so MN is the midsegment.

Scan to check your answers

Name: _____ Date: _____

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |

# Trapezoids: Midsegments, Angles & Diagonals Task Cards: Answer Key

Grade 10 · Easy

The answers online

| | | |
|---|---|---|
| **1.** 14 | **2.** 103° | **3.** 12 |
| **4.** 38 | **5.** 9 | **6.** 127° |
| **7.** 21 | **8.** 16 | **9.** 11 |
| **10.** 110° | **11.** 9 | **12.** 56 |
| **13.** 16 | **14.** 129° | **15.** 8 |
| **16.** 16 | **17.** 3 | **18.** 7 |
| **19.** 12 | **20.** 2 | **21.** 4 |
| **22.** 8 | **23.** 2 | **24.** 10 |