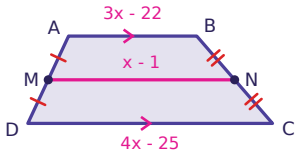
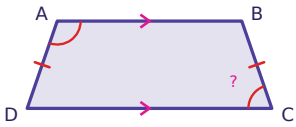
Task card 1 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 3x - 22, DC = 4x - 25 and MN = x - 1. Find MN.



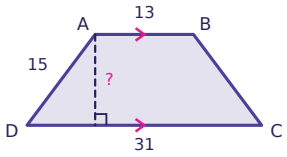
Task card 2 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠A = (8x + 85)° and m∠C = (6x + 53)°. Find m∠C.



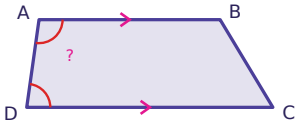
Task card 3 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 13 and DC = 31. AD = 15. Find the height of the trapezoid.



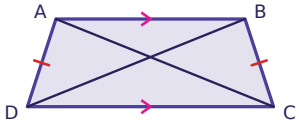
Task card 4 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (5x + 37)° and m∠A = (7x + 35)°. Find m∠A.



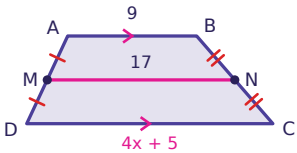
Task card 5 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = 5x - 23 and BD = x + 25. Find AC.



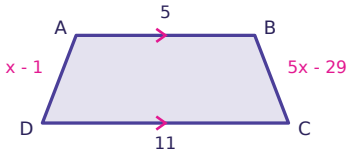
Task card 6 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 9, DC = 4x + 5 and MN = 17. Find x.



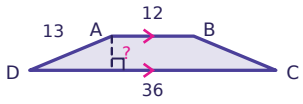
Task card 7 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = x - 1, BC = 5x - 29, AB = 5 and DC = 11. Find the perimeter of ABCD.



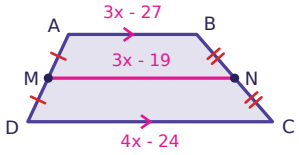
Task card 8 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 12 and DC = 36. AD = 13. Find the height of the trapezoid.



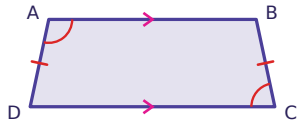
Task card 9 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 3x - 27, DC = 4x - 24 and MN = 3x - 19. Find DC.



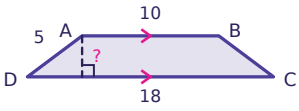
Task card 10 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠A = (5x + 37)° and m∠C = (7x - 13)°. Find x.



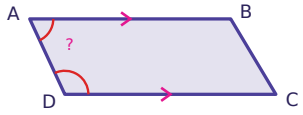
Task card 11 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 10 and DC = 18. AD = 5. Find the height of the trapezoid.



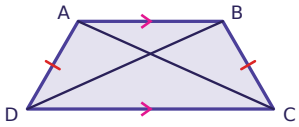
Task card 12 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (13x + 50)° and m∠A = (5x + 40)°. Find m∠A.



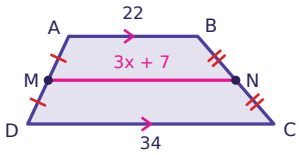
Task card 13 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = x + 21 and BD = 3x + 1. Find AC.



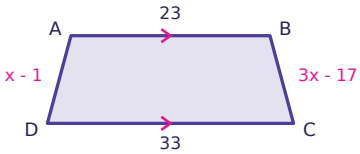
Task card 14 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 22, DC = 34 and MN = 3x + 7. Find x.



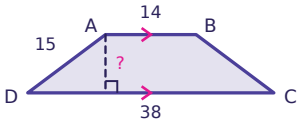
Task card 15 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = x - 1, BC = 3x - 17, AB = 23 and DC = 33. Find the perimeter of ABCD.



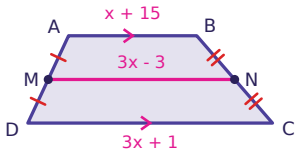
Task card 16 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 14 and DC = 38. AD = 15. Find the height of the trapezoid.



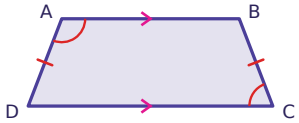
Task card 17 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = x + 15, DC = 3x + 1 and MN = 3x - 3. Find MN.



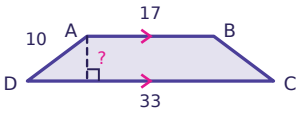
Task card 18 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠A = (12x + 87)° and m∠C = (x + 67)°. Find x.



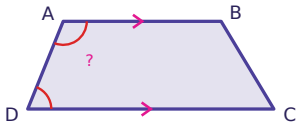
Task card 19 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 17 and DC = 33. AD = 10. Find the height of the trapezoid.



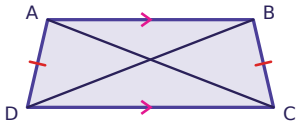
Task card 20 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (6x + 2)° and m∠A = (7x + 35)°. Find m∠A.



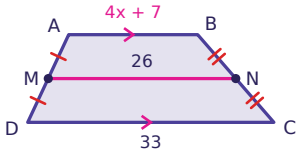
Task card 21 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = 3x + 6 and BD = 4x + 3. Find AC.



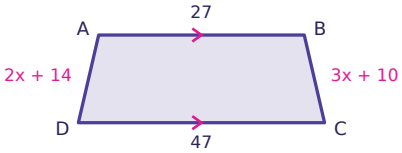
Task card 22 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 4x + 7, DC = 33 and MN = 26. Find x.



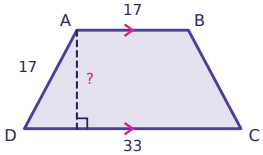
Task card 23 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = 2x + 14, BC = 3x + 10, AB = 27 and DC = 47. Find the perimeter of ABCD.



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

ABCD is an isosceles trapezoid with AD = BC. AB = 17 and DC = 33. AD = 17. Find the height of the trapezoid.



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 · Hard

The answers online

1. 8	**2.** 71°	**3.** 12
4. 98°	**5.** 37	**6.** 5
7. 28	**8.** 5	**9.** 28
10. 13	**11.** 3	**12.** 65°
13. 31	**14.** 7	**15.** 70
16. 9	**17.** 30	**18.** 2
19. 6	**20.** 112°	**21.** 15
22. 3	**23.** 118	**24.** 15