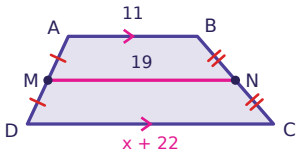
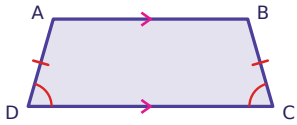
Task card 1 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 11, DC = x + 22 and MN = 19. Find x.



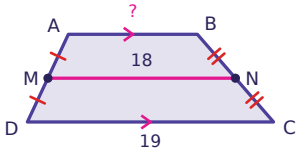
Task card 2 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = (9x + 47)° and m∠C = (x + 71)°. Find x.



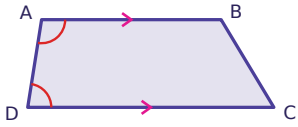
Task card 3 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 18 and DC = 19. Find AB.



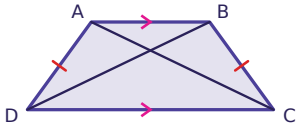
Task card 4 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (5x + 41)° and m∠A = (7x + 43)°. Find x.



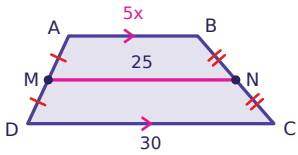
Task card 5 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = 5x + 23 and BD = 2x + 32. Find x.



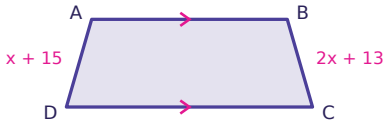
Task card 6 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 5x, DC = 30 and MN = 25. Find x.



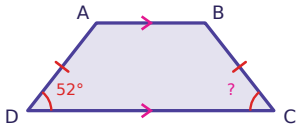
Task card 7 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = x + 15 and BC = 2x + 13. Find x.



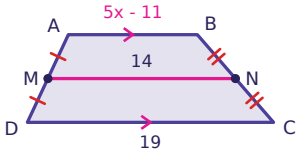
Task card 8 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = 52°. Find m∠C.



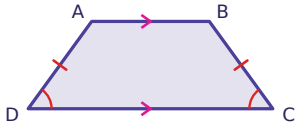
Task card 9 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 5x - 11, DC = 19 and MN = 14. Find x.



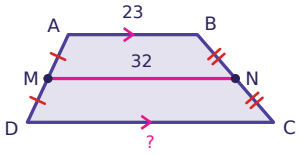
Task card 10 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠D = (6x + 42)° and m∠C = (7x + 40)°. Find x.



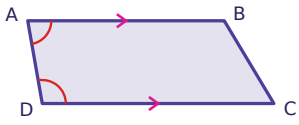
Task card 11 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. MN = 32 and AB = 23. Find DC.



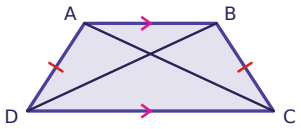
Task card 12 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (14x + 44)° and m∠A = (2x + 72)°. Find x.



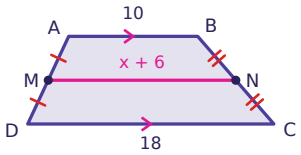
Task card 13 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = x + 36 and BD = 2x + 28. Find x.



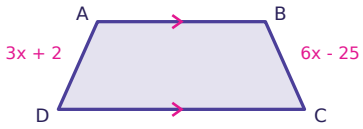
Task card 14 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 10, DC = 18 and MN = x + 6. Find x.



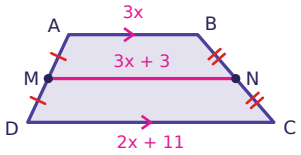
Task card 15 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = 3x + 2 and BC = 6x - 25. Find x.



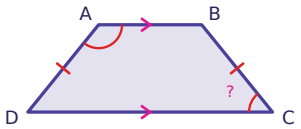
Task card 16 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 3x, DC = 2x + 11 and MN = 3x + 3. Find x.



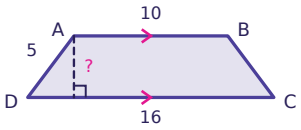
Task card 17 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. m∠A = (7x + 66)° and m∠C = (5x + 6)°. Find m∠C.



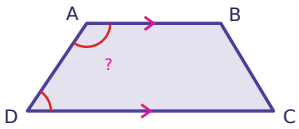
Task card 18 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 10 and DC = 16. AD = 5. Find the height of the trapezoid.



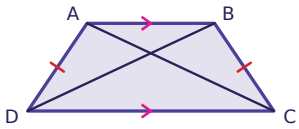
Task card 19 Trapezoids: Midsegments, Angles &...

In trapezoid ABCD, AB ∥ DC. m∠D = (6x + 2)° and m∠A = (13x + 7)°. Find m∠A.



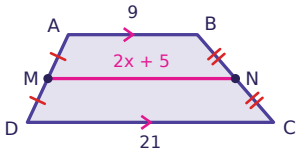
Task card 20 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AC = x + 3 and BD = 5x - 25. Find AC.



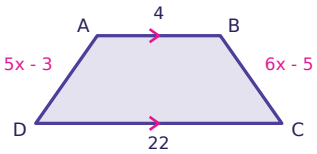
Task card 21 Trapezoids: Midsegments, Angles &...

MN is the midsegment of trapezoid ABCD. AB = 9, DC = 21 and MN = 2x + 5. Find x.



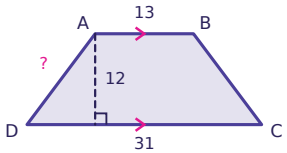
Task card 22 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AD = 5x - 3, BC = 6x - 5, AB = 4 and DC = 22. Find the perimeter of ABCD.



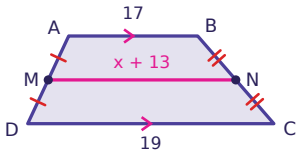
Task card 23 Trapezoids: Midsegments, Angles &...

ABCD is an isosceles trapezoid with AD = BC. AB = 13 and DC = 31. The height of the trapezoid is 12. Find AD.



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

MN is the midsegment of trapezoid ABCD. AB = 17, DC = 19 and MN = x + 13. Find x.



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 · Medium

The answers online

1. 5	**2.** 3	**3.** 17
4. 8	**5.** 3	**6.** 4
7. 2	**8.** 52°	**9.** 4
10. 2	**11.** 41	**12.** 4
13. 8	**14.** 8	**15.** 9
16. 5	**17.** 51°	**18.** 4
19. 124°	**20.** 10	**21.** 5
22. 40	**23.** 15	**24.** 5