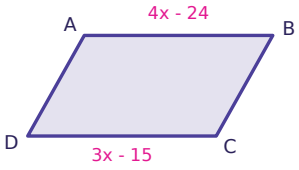
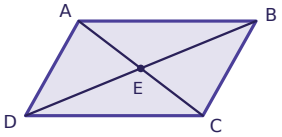
**Task card 1** Properties of Parallelograms, Rect...

ABCD is a parallelogram. AB = 4x - 24 and CD = 3x - 15. Find x.



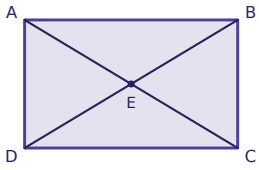

**Task card 2** Properties of Parallelograms, Rect...

ABCD is a parallelogram whose diagonals meet at E. AE = 2x + 2 and EC = 3x - 4. Find x.



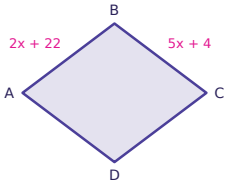

**Task card 3** Properties of Parallelograms, Rect...

ABCD is a rectangle. AC = 4x + 20 and BD = 6x + 8. Find x.



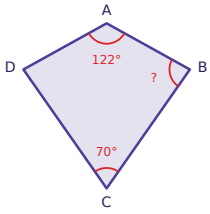

**Task card 4** Properties of Parallelograms, Rect...

ABCD is a rhombus. AB = 2x + 22 and BC = 5x + 4. Find x.



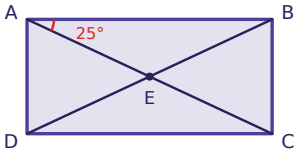

**Task card 5** Properties of Parallelograms, Rect...

ABCD is a kite with AB = AD and CB = CD. m∠A = 122° and m∠C = 70°. Find m∠B.



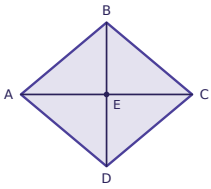

**Task card 6** Properties of Parallelograms, Rect...

ABCD is a rectangle whose diagonals meet at E. m∠EAB = 25°. Find m∠EBC.



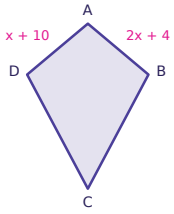
**Task card 7** Properties of Parallelograms, Rect...

ABCD is a rhombus whose diagonals meet at E. Find m∠AEB.



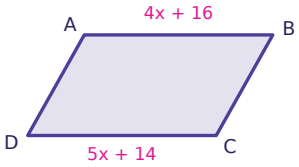

**Task card 8** Properties of Parallelograms, Rect...

ABCD is a kite with AB = AD and CB = CD. AB = 2x + 4 and AD = x + 10. Find x.



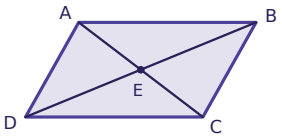

**Task card 9** Properties of Parallelograms, Rect...

ABCD is a parallelogram. AB = 4x + 16 and CD = 5x + 14. Find x.



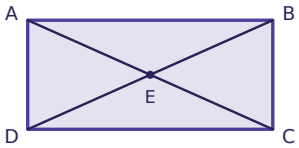

**Task card 10** Properties of Parallelograms, Rect...

ABCD is a parallelogram whose diagonals meet at E. BE = 5x - 3 and ED = 6x - 5. Find x.



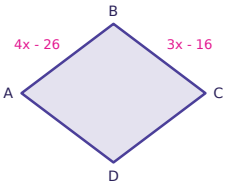

**Task card 11** Properties of Parallelograms, Rect...

ABCD is a rectangle. AC = 3x + 12 and BD = 4x + 7. Find x.



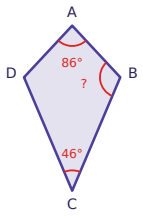

**Task card 12** Properties of Parallelograms, Rect...

ABCD is a rhombus. AB = 4x - 26 and BC = 3x - 16. Find x.



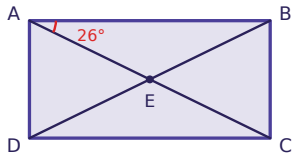
**Task card 13** Properties of Parallelograms, Rect...

ABCD is a kite with AB = AD and CB = CD. m∠A = 86° and m∠C = 46°. Find m∠B.



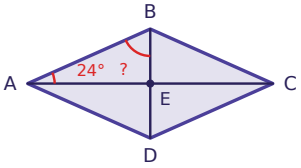

**Task card 14** Properties of Parallelograms, Rect...

ABCD is a rectangle whose diagonals meet at E. m∠EAB = 26°. Find m∠EBC.



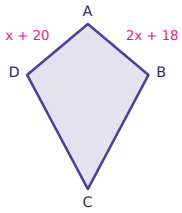

**Task card 15** Properties of Parallelograms, Rect...

ABCD is a rhombus whose diagonals meet at E. m∠EAB = 24°. Find m∠ABE.



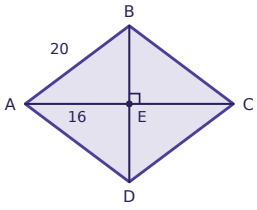

**Task card 16** Properties of Parallelograms, Rect...

ABCD is a kite with AB = AD and CB = CD. AB = 2x + 18 and AD = x + 20. Find x.



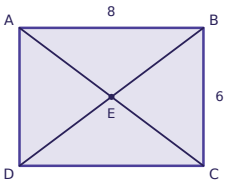

**Task card 17** Properties of Parallelograms, Rect...

ABCD is a rhombus whose diagonals meet at E. AB = 20 and AC = 32. Find BD.



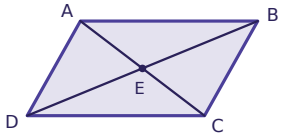

**Task card 18** Properties of Parallelograms, Rect...

ABCD is a rectangle with AB = 8 and BC = 6. Find AC.



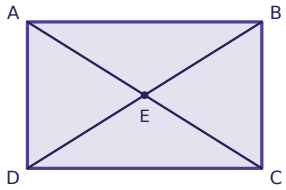
**Task card 19** Properties of Parallelograms, Rect...

ABCD is a parallelogram whose diagonals meet at E. AE = 4x - 21 and EC = x + 9. Find AC.



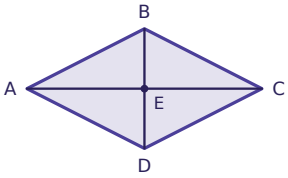

**Task card 20** Properties of Parallelograms, Rect...

ABCD is a rectangle whose diagonals meet at E. AE = x + 10 and BD = 5x + 8. Find BD.



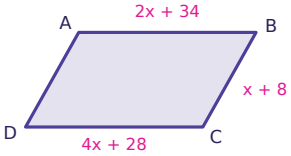

**Task card 21** Properties of Parallelograms, Rect...

ABCD is a rhombus whose diagonals meet at E. m∠AEB = (11x + 24)°. Find x.



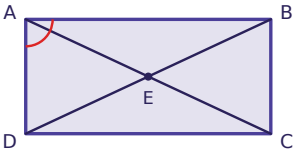

**Task card 22** Properties of Parallelograms, Rect...

ABCD is a parallelogram. AB = 2x + 34, CD = 4x + 28 and BC = x + 8. Find the perimeter of ABCD.



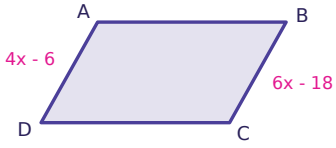

**Task card 23** Properties of Parallelograms, Rect...

ABCD is a rectangle. m∠BAC = (6x - 5)° and m∠CAD = (4x + 45)°. Find x.




**Task card 24** Properties of Parallelograms, Rect...

ABCD is a parallelogram. AD = 4x - 6 and BC = 6x - 18. Find x.



# Properties of Parallelograms, Rectangles, Rhombuses & Kites Task Cards

Recording sheet · Grade 10 · Use the properties of each quadrilateral. When diagonals are drawn, they meet at E. Diagrams are not always drawn to scale.

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 |

# Properties of Parallelograms, Rectangles, Rhombuses & Kites Task Cards: Answer Key

Grade 10 · Medium

The answers online

| | | |
|---|---|---|
| **1.** 9 | **2.** 6 | **3.** 6 |
| **4.** 6 | **5.** 84° | **6.** 65° |
| **7.** 90° | **8.** 6 | **9.** 2 |
| **10.** 2 | **11.** 5 | **12.** 10 |
| **13.** 114° | **14.** 64° | **15.** 66° |
| **16.** 2 | **17.** 24 | **18.** 10 |
| **19.** 38 | **20.** 28 | **21.** 6 |
| **22.** 102 | **23.** 5 | **24.** 6 |