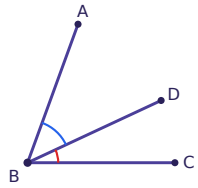
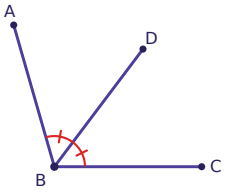
Task card 1 Angle Addition & Angle Bisectors

$m\angle ABD = (7x + 17)°$, $m\angle DBC = (6x + 1)°$, and $m\angle ABC = 70°$. Find x.



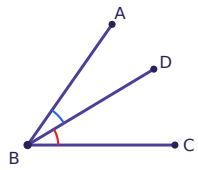
Task card 2 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (x + 42)°$ and $m\angle DBC = (2x + 31)°$. Find x.



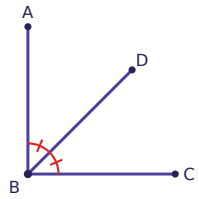
Task card 3 Angle Addition & Angle Bisectors

$m\angle ABD = (4x - 24)°$, $m\angle DBC = (5x - 29)°$, and $m\angle ABC = 55°$. Find x.



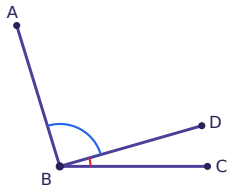
Task card 4 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (2x + 21)°$ and $m\angle DBC = (5x - 15)°$. Find x.



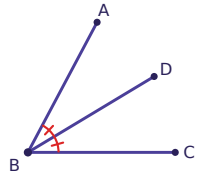
Task card 5 Angle Addition & Angle Bisectors

$m\angle ABD = (7x + 28)°$, $m\angle DBC = (3x - 11)°$, and $m\angle ABC = 107°$. Find x.



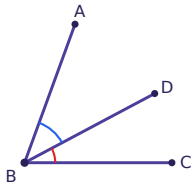
Task card 6 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (4x - 17)°$ and $m\angle DBC = (3x - 5)°$. Find x.



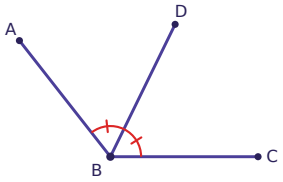
Task card 7 Angle Addition & Angle Bisectors

$m\angle ABD = (2x + 18)°$, $m\angle DBC = (4x - 20)°$, and $m\angle ABC = 70°$. Find x.



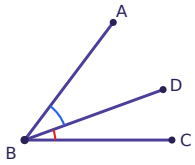
Task card 8 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (4x + 44)°$ and $m\angle DBC = (6x + 34)°$. Find x.



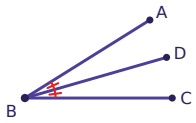
Task card 9 Angle Addition & Angle Bisectors

$m\angle ABD = (6x + 3)°$, $m\angle DBC = (2x + 10)°$, and $m\angle ABC = 53°$. Find x.



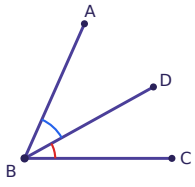
Task card 10 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (x + 13)°$ and $m\angle DBC = (6x - 2)°$. Find x.



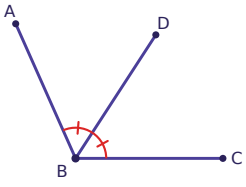
Task card 11 Angle Addition & Angle Bisectors

$m\angle ABD = (2x + 25)°$, $m\angle DBC = (x + 23)°$, and $m\angle ABC = 66°$. Find x.



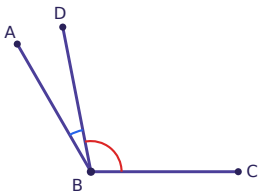
Task card 12 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (7x + 8)°$ and $m\angle DBC = (3x + 36)°$. Find x.



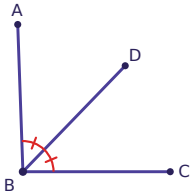
Task card 13 Angle Addition & Angle Bisectors

$m\angle ABD = (7x - 9)°$, $m\angle DBC = (3x + 89)°$, and $m\angle ABC = 120°$. Find x.



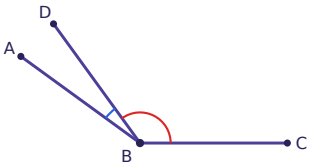
Task card 14 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (7x - 24)°$ and $m\angle DBC = (4x + 6)°$. Find x.



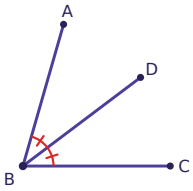
Task card 15 Angle Addition & Angle Bisectors

$m\angle ABD = (7x - 24)°$, $m\angle DBC = (11x + 60)°$, and $m\angle ABC = 144°$. Find x.



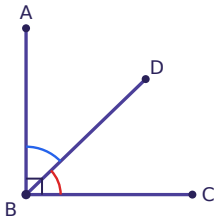
Task card 16 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (6x - 5)°$ and $m\angle DBC = (x + 30)°$. Find x.



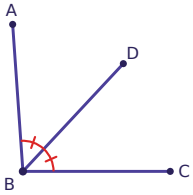
Task card 17 Angle Addition & Angle Bisectors

$m\angle ABD = (5x - 19)°$, $m\angle DBC = (4x - 8)°$, and $\angle ABC$ is a right angle. Find $m\angle ABD$.



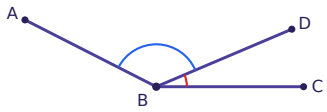
Task card 18 Angle Addition & Angle Bisectors

BD bisects $\angle ABC$. $m\angle ABD = (2x + 25)°$ and $m\angle DBC = (x + 36)°$. Find $m\angle ABC$.



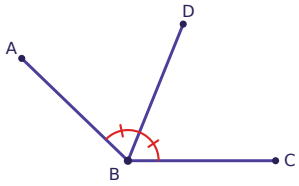
Task card 19 Angle Addition & Angle Bisectors

m∠ABD = (14x + 88)°, m∠DBC = (3x + 14)°, and m∠ABC = 153°. Find m∠ABD.



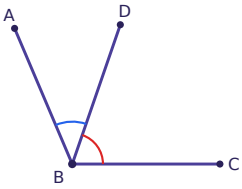
Task card 20 Angle Addition & Angle Bisectors

BD bisects ∠ABC. m∠ABD = (6x + 44)° and m∠ABC = (14x + 80)°. Find m∠DBC.



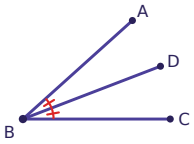
Task card 21 Angle Addition & Angle Bisectors

m∠ABD = (3x + 27)°, m∠DBC = (6x + 41)°, and m∠ABC = 113°. Find m∠DBC.



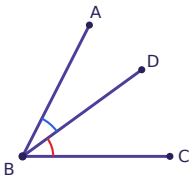
Task card 22 Angle Addition & Angle Bisectors

BD bisects ∠ABC. m∠ABD = (2x + 7)° and m∠ABC = 6x°. Find m∠DBC.



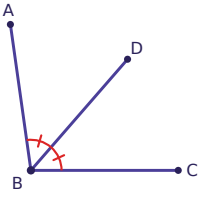
Task card 23 Angle Addition & Angle Bisectors

m∠ABD = (7x - 29)°, m∠DBC = (6x - 12)°, and m∠ABC = 63°. Find m∠DBC.



Task card 24 Angle Addition & Angle Bisectors

BD bisects ∠ABC. m∠ABD = (5x + 14)° and m∠ABC = (3x + 77)°. Find m∠DBC.



Angle Addition & Angle Bisectors Task Cards

Recording sheet · Grade 10 · Point D is in the interior of ∠ABC. Use the given information to answer each question.

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

Angle Addition & Angle Bisectors Task Cards: Answer Key

Grade 10 · Medium

The answers online

1. 4	**2.** 11	**3.** 12
4. 12	**5.** 9	**6.** 12
7. 12	**8.** 5	**9.** 5
10. 3	**11.** 6	**12.** 7
13. 4	**14.** 10	**15.** 6
16. 7	**17.** 46°	**18.** 94°
19. 130°	**20.** 68°	**21.** 71°
22. 21°	**23.** 36°	**24.** 49°