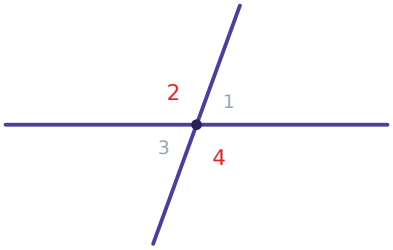
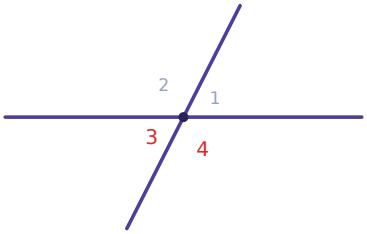
Task card 1 Angle Pairs: Complementary, Supple...

$m\angle 4 = (8x + 62)°$ and $m\angle 2 = (7x + 68)°$. Find $m\angle 4$.



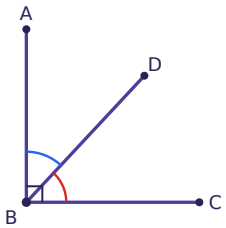
Task card 2 Angle Pairs: Complementary, Supple...

$\angle 3$ and $\angle 4$ form a linear pair. $m\angle 3 = (4x + 15)°$ and $m\angle 4 = (7x + 33)°$. Find $m\angle 4$.



Task card 3 Angle Pairs: Complementary, Supple...

$\angle ABD$ and $\angle DBC$ are complementary. $m\angle ABD = (6x + 7)°$ and $m\angle DBC = (6x + 11)°$. Find $m\angle ABD$.

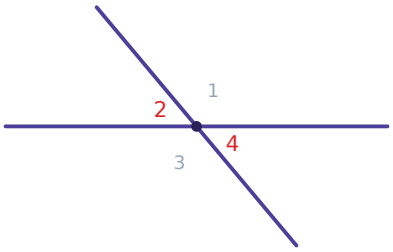


Task card 4 Angle Pairs: Complementary, Supple...

The supplement of an angle is 4 times its complement. Find the measure of the angle.

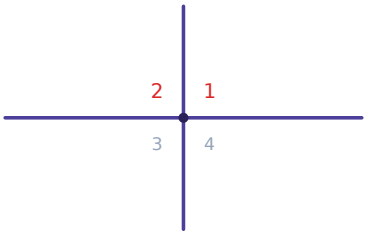
Task card 5 Angle Pairs: Complementary, Supple...

$m\angle 4 = (x + 40)°$ and $m\angle 2 = (2x + 30)°$. Find $m\angle 4$.



Task card 6 Angle Pairs: Complementary, Supple...

$\angle 1$ and $\angle 2$ form a linear pair. $m\angle 1 = (7x + 27)°$ and $m\angle 2 = (7x + 27)°$. Find $m\angle 2$.

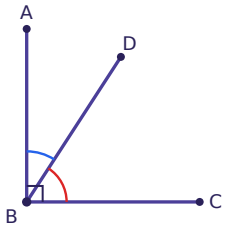


Task card 7 Angle Pairs: Complementary, Supple...

An angle measures 10° less than 4 times its supplement. Find the measure of the angle.

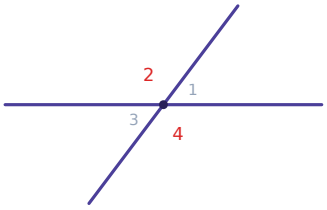
Task card 8 Angle Pairs: Complementary, Supple...

∠ABD and ∠DBC are complementary. m∠ABD = (x + 28)° and m∠DBC = (7x + 22)°. Find m∠ABD.



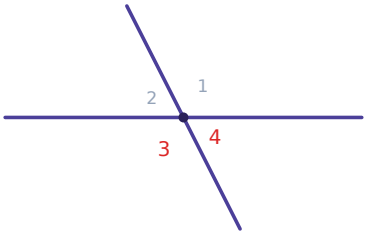
Task card 9 Angle Pairs: Complementary, Supple...

m∠4 = (6x + 73)° and m∠2 = (11x + 28)°. Find m∠4.



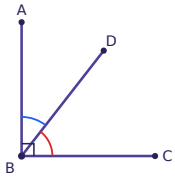
Task card 10 Angle Pairs: Complementary, Supple...

∠3 and ∠4 form a linear pair. m∠3 = (5x + 82)° and m∠4 = (7x + 14)°. Find m∠4.



Task card 11 Angle Pairs: Complementary, Supple...

∠ABD and ∠DBC are complementary. m∠ABD = (4x + 22)° and m∠DBC = (5x + 32)°. Find m∠ABD.

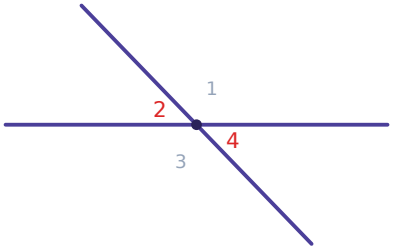


Task card 12 Angle Pairs: Complementary, Supple...

An angle measures 10° more than 4 times its complement. Find the measure of the angle.

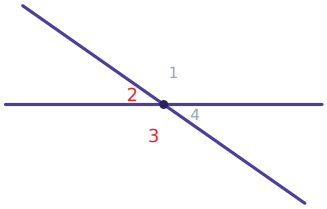
Task card 13 Angle Pairs: Complementary, Supple...

$m\angle 4 = (6x - 26)°$ and $m\angle 2 = (3x + 10)°$. Find $m\angle 4$.



Task card 14 Angle Pairs: Complementary, Supple...

$\angle 2$ and $\angle 3$ form a linear pair. $m\angle 2 = 7x°$ and $m\angle 3 = (11x + 90)°$. Find $m\angle 3$.

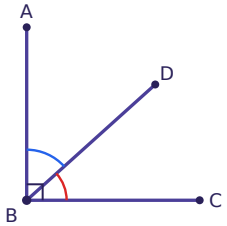


Task card 15 Angle Pairs: Complementary, Supple...

The supplement of an angle is 10 times its complement. Find the measure of the angle.

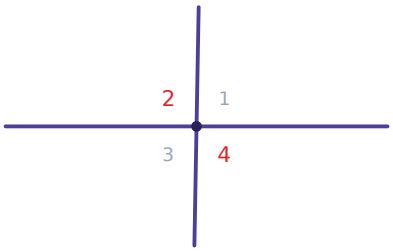
Task card 16 Angle Pairs: Complementary, Supple...

$\angle ABD$ and $\angle DBC$ are complementary. $m\angle ABD = 6x°$ and $m\angle DBC = (4x + 10)°$. Find $m\angle ABD$.



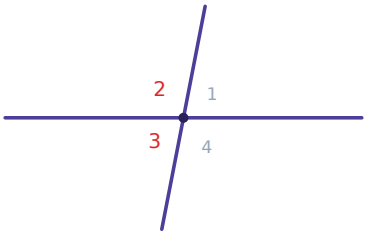
Task card 17 Angle Pairs: Complementary, Supple...

$m\angle 4 = (4x + 31)°$ and $m\angle 2 = (6x + 1)°$. Find $m\angle 4$.



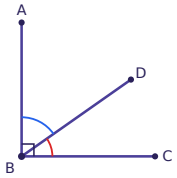
Task card 18 Angle Pairs: Complementary, Supple...

$\angle 2$ and $\angle 3$ form a linear pair. $m\angle 2 = (9x + 38)°$ and $m\angle 3 = (5x + 44)°$. Find $m\angle 3$.



Task card 19 Angle Pairs: Complementary, Supple...

∠ABD and ∠DBC are complementary. m∠ABD = (5x + 20)° and m∠DBC = (7x - 14)°. Find m∠ABD.

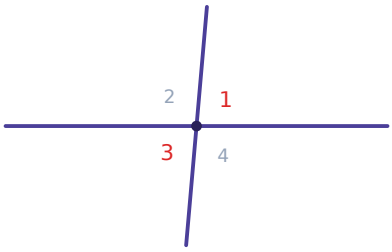


Task card 20 Angle Pairs: Complementary, Supple...

The supplement of an angle is 6 times its complement. Find the measure of the angle.

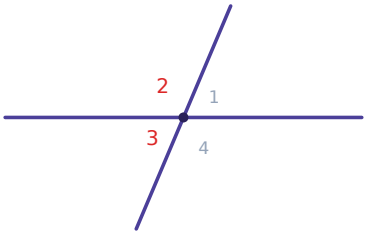
Task card 21 Angle Pairs: Complementary, Supple...

m∠1 = (7x - 6)° and m∠3 = (4x + 33)°. Find m∠1.



Task card 22 Angle Pairs: Complementary, Supple...

∠2 and ∠3 form a linear pair. m∠2 = (7x + 36)° and m∠3 = (2x + 45)°. Find m∠3.

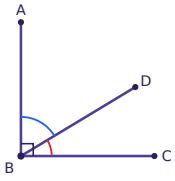


Task card 23 Angle Pairs: Complementary, Supple...

An angle measures 35° more than 4 times its supplement. Find the measure of the angle.

Task card 24 Angle Pairs: Complementary, Supple...

∠ABD and ∠DBC are complementary. m∠ABD = (3x + 20)° and m∠DBC = (4x - 21)°. Find m∠ABD.



Angle Pairs: Complementary, Supplementary & Vertical Task Cards

Recording sheet · Grade 10 · Use the angle relationships in each diagram to answer the 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 Pairs: Complementary, Supplementary & Vertical Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 110°	**2.** 117°	**3.** 43°
4. 60°	**5.** 50°	**6.** 90°
7. 142°	**8.** 33°	**9.** 127°
10. 63°	**11.** 38°	**12.** 74°
13. 46°	**14.** 145°	**15.** 80°
16. 48°	**17.** 91°	**18.** 79°
19. 55°	**20.** 72°	**21.** 85°
22. 67°	**23.** 151°	**24.** 59°