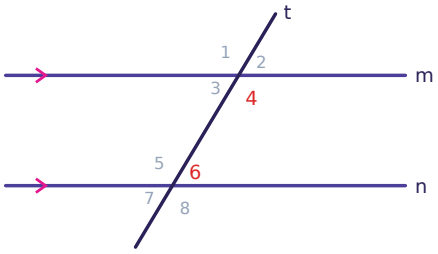
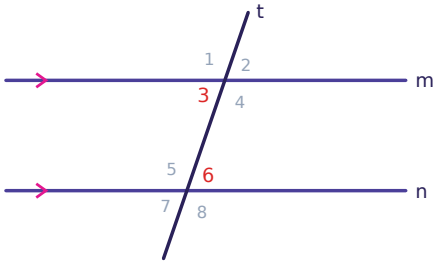
Task card 1 Parallel Lines Cut by a Transversa...

$m\angle 6 = (3x + 14)°$ and $m\angle 4 = (7x + 16)°$. Find x.



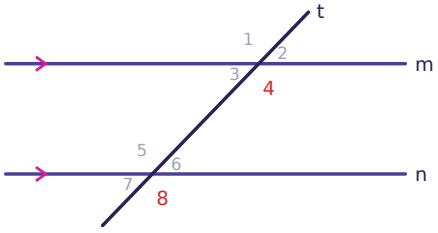
Task card 2 Parallel Lines Cut by a Transversa...

$m\angle 3 = (6x + 41)°$ and $m\angle 6 = (7x + 36)°$. Find $m\angle 6$.



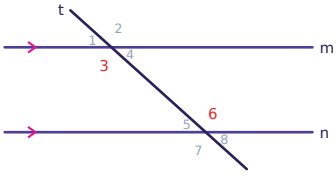
Task card 3 Parallel Lines Cut by a Transversa...

$m\angle 4 = (6x + 74)°$ and $m\angle 8 = (7x + 64)°$. Find x.



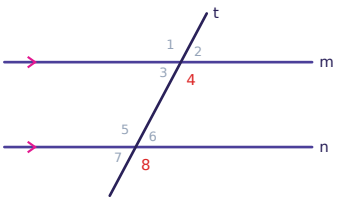
Task card 4 Parallel Lines Cut by a Transversa...

$m\angle 3 = (13x + 47)°$ and $m\angle 6 = (12x + 54)°$. Find $m\angle 6$.



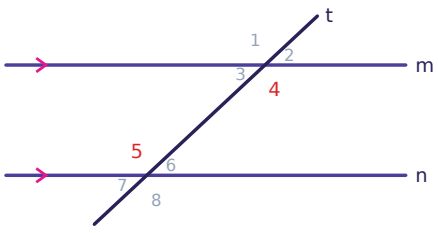
Task card 5 Parallel Lines Cut by a Transversa...

Name the relationship between $\angle 8$ and $\angle 4$: corresponding, alternate interior, alternate exterior, or same-side interior.



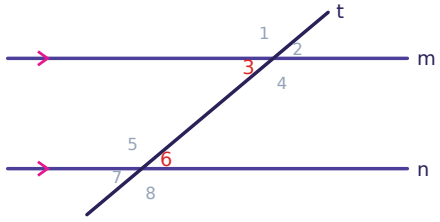
Task card 6 Parallel Lines Cut by a Transversa...

$m\angle 5 = (15x - 13)°$ and $m\angle 4 = (8x + 57)°$. Find x.



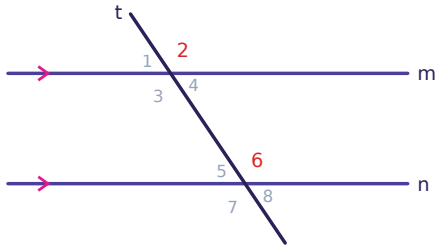
Task card 7 Parallel Lines Cut by a Transversa...

$m\angle 6 = (5x - 20)°$ and $m\angle 3 = (x + 28)°$. Find $m\angle 3$.



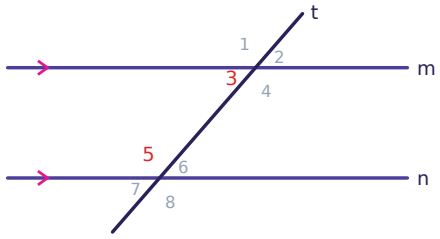
Task card 8 Parallel Lines Cut by a Transversa...

$m\angle 2 = (15x + 64)°$ and $m\angle 6 = 124°$. Find x.



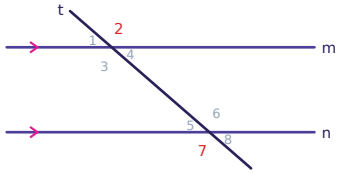
Task card 9 Parallel Lines Cut by a Transversa...

$m\angle 5 = (6x + 77)°$ and $m\angle 3 = 49°$. Find x.



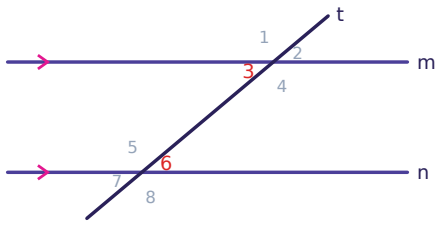
Task card 10 Parallel Lines Cut by a Transversa...

$m\angle 7 = (7x + 69)°$ and $m\angle 2 = (11x + 29)°$. Find $m\angle 2$.



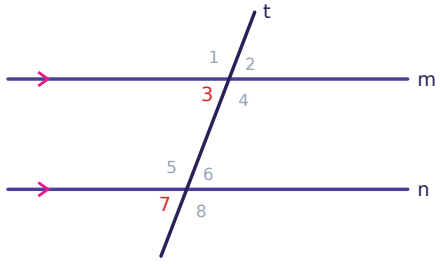
Task card 11 Parallel Lines Cut by a Transversa...

$m\angle 6 = (7x + 12)°$ and $m\angle 3 = 40°$. Find x.



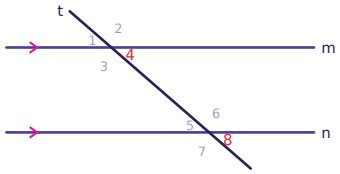
Task card 12 Parallel Lines Cut by a Transversa...

$m\angle 7 = (6x + 45)°$ and $m\angle 3 = (7x + 41)°$. Find $m\angle 3$.



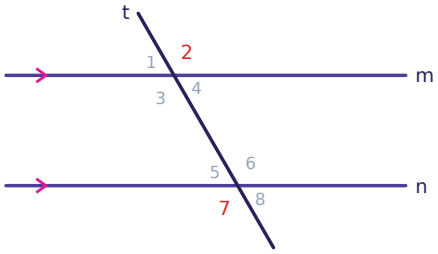
Task card 13 Parallel Lines Cut by a Transversa...

Name the relationship between ∠8 and ∠4: corresponding, alternate interior, alternate exterior, or same-side interior.



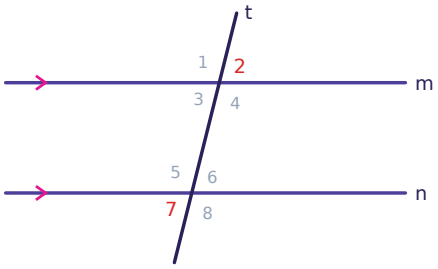
Task card 14 Parallel Lines Cut by a Transversa...

$m\angle 2 = (10x + 40)°$ and $m\angle 7 = (12x + 24)°$. Find x.



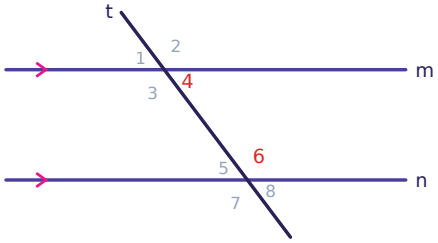
Task card 15 Parallel Lines Cut by a Transversa...

$m\angle 7 = (7x + 13)°$ and $m\angle 2 = (5x + 31)°$. Find $m\angle 2$.



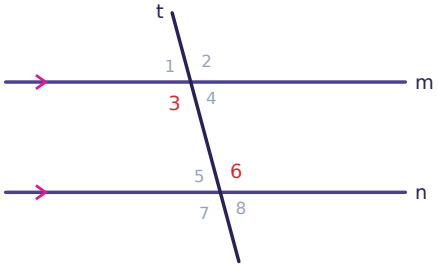
Task card 16 Parallel Lines Cut by a Transversa...

$m\angle 4 = (6x + 23)°$ and $m\angle 6 = 127°$. Find x.



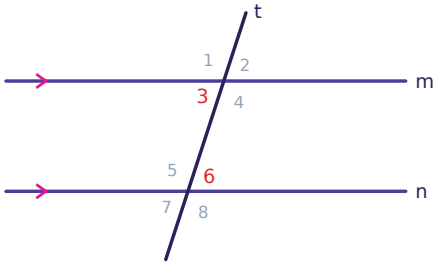
Task card 17 Parallel Lines Cut by a Transversa...

$m\angle 3 = (4x + 45)°$ and $m\angle 6 = 105°$. Find x.



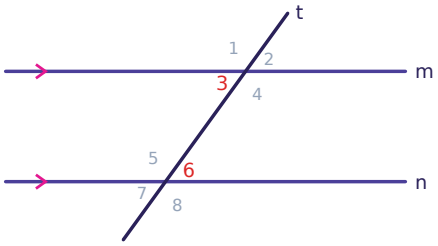
Task card 18 Parallel Lines Cut by a Transversa...

$m\angle 6 = (6x + 24)°$ and $m\angle 3 = (5x + 32)°$. Find $m\angle 3$.



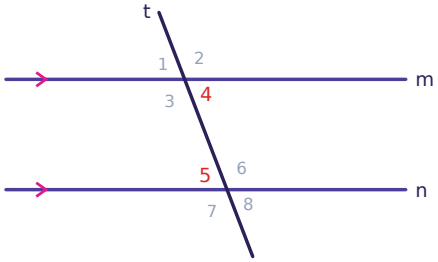
Task card 19 Parallel Lines Cut by a Transversa...

$m\angle 6 = (5x - 11)°$ and $m\angle 3 = 54°$. Find x.



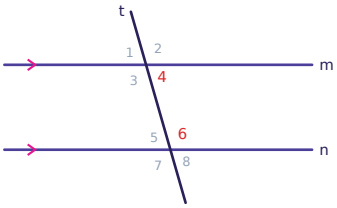
Task card 20 Parallel Lines Cut by a Transversa...

$m\angle 5 = (6x + 33)°$ and $m\angle 4 = (7x + 27)°$. Find $m\angle 4$.



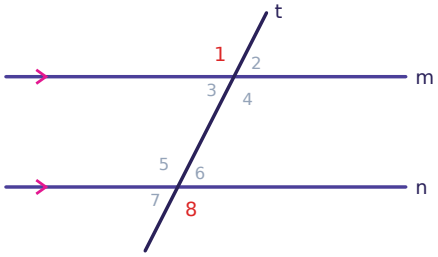
Task card 21 Parallel Lines Cut by a Transversa...

Name the relationship between ∠6 and ∠4: corresponding, alternate interior, alternate exterior, or same-side interior.



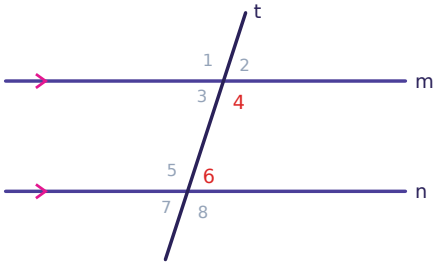
Task card 22 Parallel Lines Cut by a Transversa...

$m\angle 8 = (7x + 82)°$ and $m\angle 1 = 117°$. Find x.



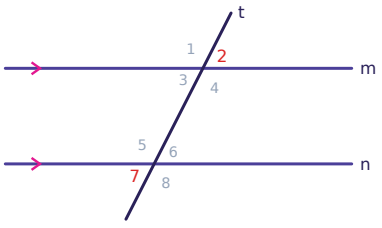
Task card 23 Parallel Lines Cut by a Transversa...

$m\angle 4 = (5x + 33)°$ and $m\angle 6 = (3x + 27)°$. Find $m\angle 6$.



Task card 24 Parallel Lines Cut by a Transversa...

$m\angle 2 = (5x + 3)°$ and $m\angle 7 = 63°$. Find x.



Parallel Lines Cut by a Transversal Task Cards

Recording sheet · Grade 10 · In each diagram, line m is parallel to line n and t is a transversal.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Parallel Lines Cut by a Transversal Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 15	**2.** 71°	**3.** 10
4. 138°	**5.** corresponding	**6.** 10
7. 40°	**8.** 4	**9.** 9
10. 139°	**11.** 4	**12.** 69°
13. corresponding	**14.** 8	**15.** 76°
16. 5	**17.** 15	**18.** 72°
19. 13	**20.** 69°	**21.** same-side interior
22. 5	**23.** 72°	**24.** 12