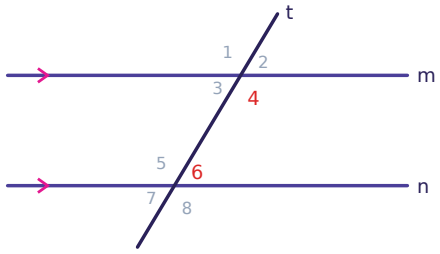
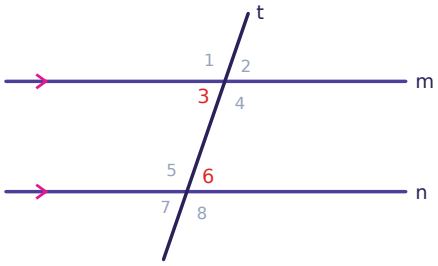
**Task card 1** Parallel Lines Cut by a Transversa...

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



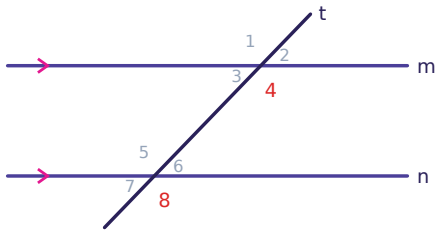

**Task card 2** Parallel Lines Cut by a Transversa...

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



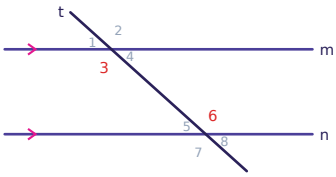

**Task card 3** Parallel Lines Cut by a Transversa...

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



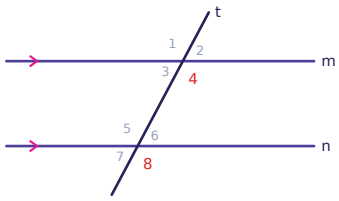

**Task card 4** Parallel Lines Cut by a Transversa...

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



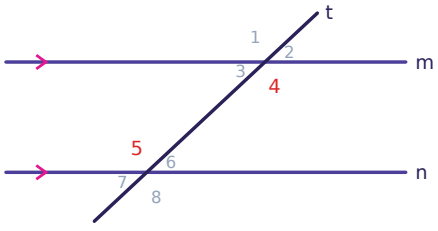

**Task card 5** Parallel Lines Cut by a Transversa...

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



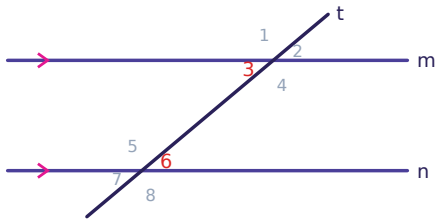

**Task card 6** Parallel Lines Cut by a Transversa...

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



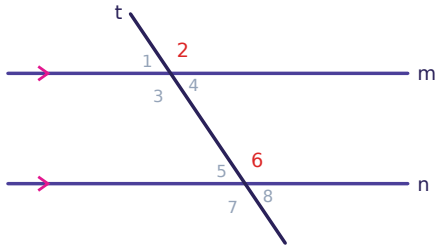
**Task card 7** Parallel Lines Cut by a Transversa...

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



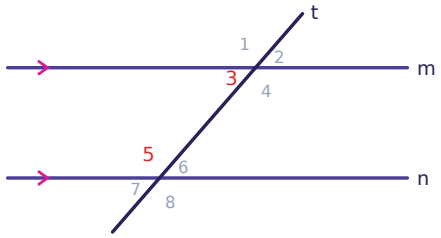

**Task card 8** Parallel Lines Cut by a Transversa...

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



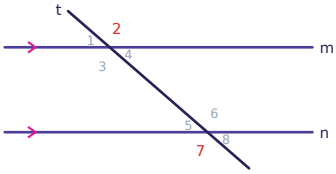

**Task card 9** Parallel Lines Cut by a Transversa...

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



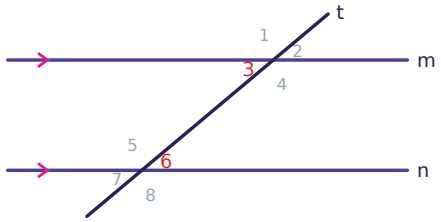

**Task card 10** Parallel Lines Cut by a Transversa...

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



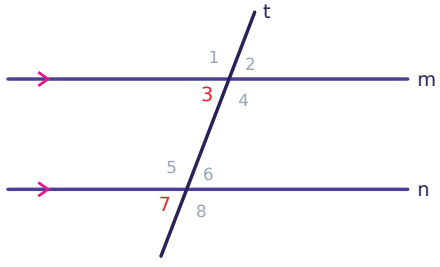

**Task card 11** Parallel Lines Cut by a Transversa...

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



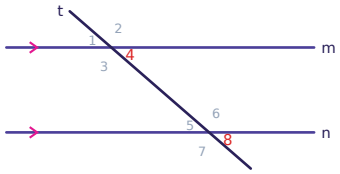

**Task card 12** Parallel Lines Cut by a Transversa...

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



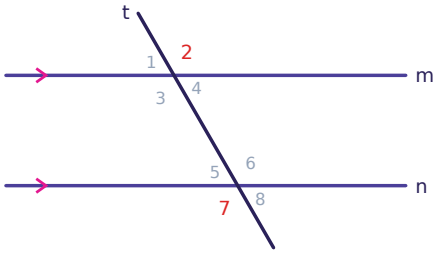
**Task card 13** Parallel Lines Cut by a Transversa...

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



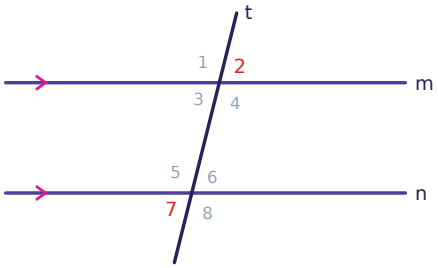

**Task card 14** Parallel Lines Cut by a Transversa...

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



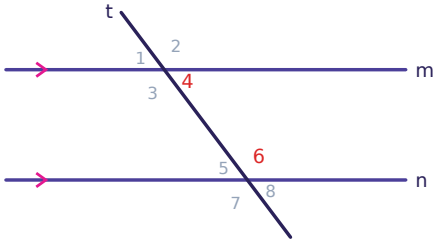

**Task card 15** Parallel Lines Cut by a Transversa...

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



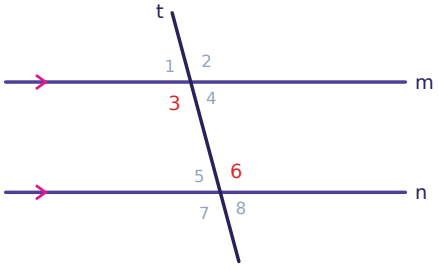

**Task card 16** Parallel Lines Cut by a Transversa...

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



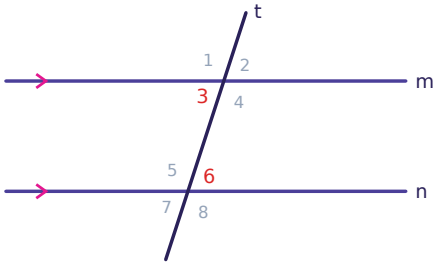

**Task card 17** Parallel Lines Cut by a Transversa...

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



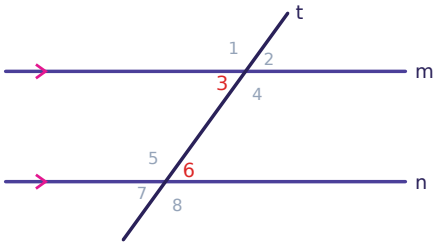

**Task card 18** Parallel Lines Cut by a Transversa...

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



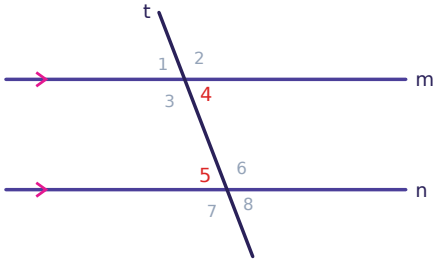
**Task card 19** Parallel Lines Cut by a Transversa...

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



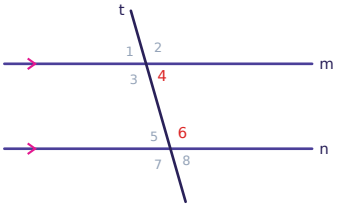

**Task card 20** Parallel Lines Cut by a Transversa...

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



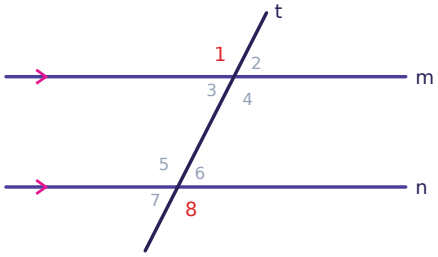

**Task card 21** Parallel Lines Cut by a Transversa...

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



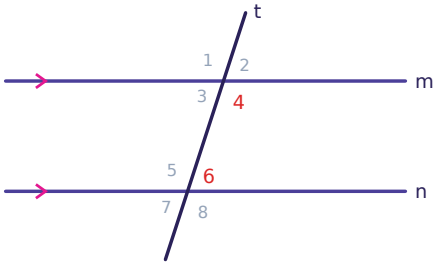

**Task card 22** Parallel Lines Cut by a Transversa...

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



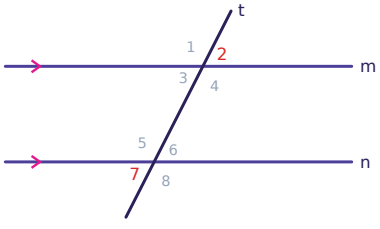

**Task card 23** Parallel Lines Cut by a Transversa...

$m\angle 4 = (5x + 33)°$ 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 |