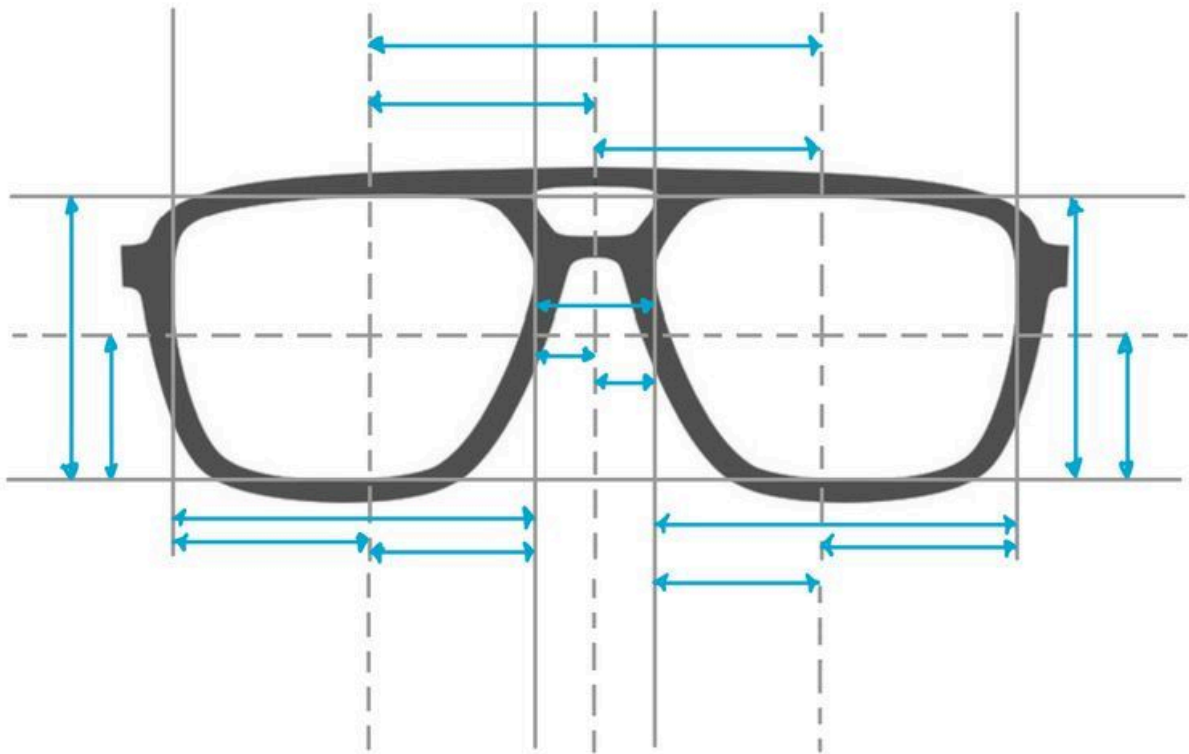


# Zentrierlehre Übungen

- ① Ermittle alle bekannten Strecken der gezeichneten Fassung in Millimeter und trage diese Werte in die Zeichnung ein.
- Gib die Größenangabe für die Fassung an.
  - Gib die Größenangabe für die Formscheibe an.

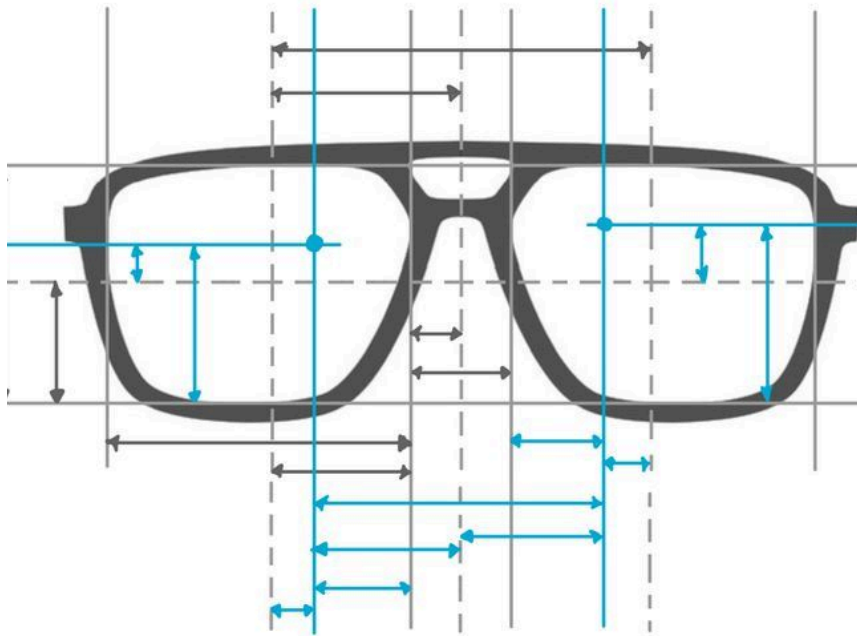








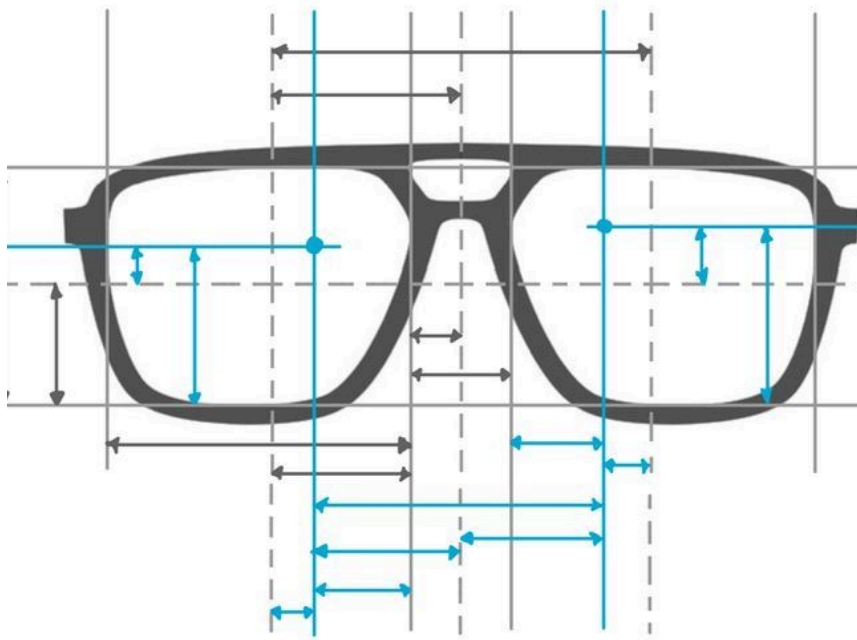
# Zentrierlehre Übungen



|    | Fassung |    |    |    | Zentrierung |                |                |                |                |                |                |                |                |                |                |  |
|----|---------|----|----|----|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
|    | c       | d  | a  | b  | z           | z <sub>R</sub> | z <sub>L</sub> | x <sub>R</sub> | x <sub>L</sub> | y <sub>R</sub> | y <sub>L</sub> | u <sub>R</sub> | u <sub>L</sub> | v <sub>R</sub> | v <sub>L</sub> |  |
| 1  | 68      | 20 |    | 40 |             | 32             | 32             |                |                | 21             | 21             |                |                |                |                |  |
| 2  |         | 18 | 52 | 38 |             |                |                | 24             | 22             | 20             | 17             |                |                |                |                |  |
| 3  | 70      |    | 54 | 44 |             |                |                |                |                |                |                | +3             | -1             | -1             | +1             |  |
| 4  |         | 22 | 54 | 40 | 64          | 32             |                |                |                | 22             | 22             |                |                |                |                |  |
| 5  |         |    |    |    |             | 31             | 34             | 22             |                | 20             | 17             | +5             |                | -2             |                |  |
| 6  |         |    |    | 48 |             | 32             | 33             |                | 23             |                |                | +6             |                | -5             | -6             |  |
| 7  | 72      | 20 |    |    |             |                |                |                |                | 21             | 18             | +4             | +3             | -1             |                |  |
| 8  | 66      |    | 48 | 44 |             | 32             |                |                |                | 21             |                |                | +2             |                | +2             |  |
| 9  |         | 20 |    |    | 64          |                |                |                |                |                | 20             | +2             | +4             | -3             | -4             |  |
| 10 | 62      | 16 |    | 42 | 68          | 33             | 35             |                |                |                |                | -2             | -4             | +1             | -1             |  |



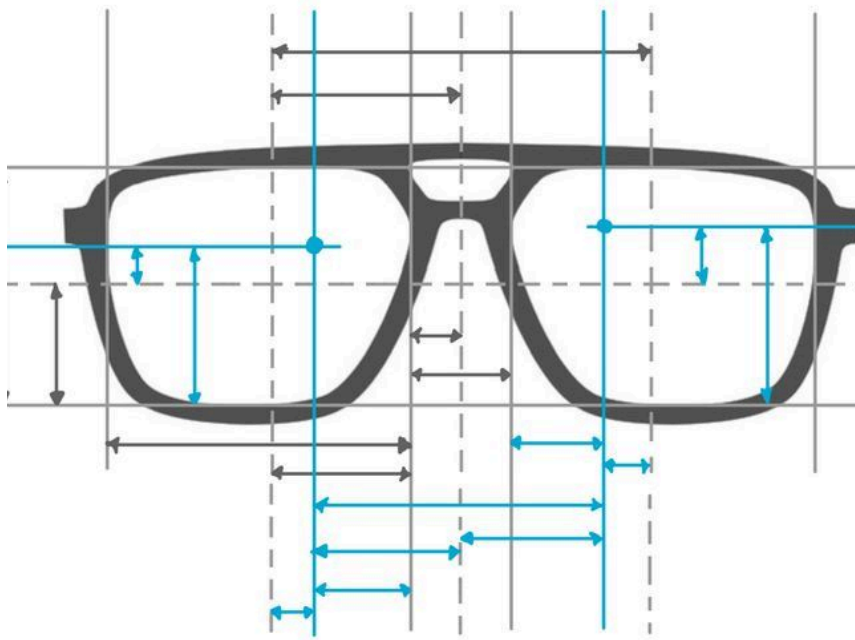
# Zentrierlehre Übungen



|    | Fassung |    |    |    | Zentrierung |                |                |                |                |                |                |                |                |                |                |  |
|----|---------|----|----|----|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
|    | c       | d  | a  | b  | z           | z <sub>R</sub> | z <sub>L</sub> | x <sub>R</sub> | x <sub>L</sub> | y <sub>R</sub> | y <sub>L</sub> | u <sub>R</sub> | u <sub>L</sub> | v <sub>R</sub> | v <sub>L</sub> |  |
| 1  |         | 14 | 48 | 38 |             | 29             | 28             |                |                | 17             | 18             |                |                |                |                |  |
| 2  | 76      | 20 |    | 46 |             |                |                | 23             | 24             | 26             | 27             |                |                |                |                |  |
| 3  | 68      |    | 52 | 42 |             |                |                |                |                |                |                | -2             | -3             | -1             | -2             |  |
| 4  |         | 15 | 55 | 40 | 66          |                | 32             |                |                | 19             | 17             |                |                |                |                |  |
| 5  |         |    |    |    |             | 36             | 34             | 24,5           |                | 18             | 20             | -4             |                | -6             | -4             |  |
| 6  |         |    |    | 44 |             | 35             | 33             |                | 23,5           |                |                | 0              |                | +1             | +3             |  |
| 7  | 80      | 22 |    |    |             |                |                |                |                | 22             | 23             | +2             | +5             | -3             | -2             |  |
| 8  | 66      |    | 49 | 32 |             | 34             |                |                |                | 18             |                | -1             | +2             |                | 0              |  |
| 9  |         | 17 |    |    | 63          |                |                |                |                |                | 22             | -3             | -2             | +3             | +5             |  |
| 10 | 68      |    | 52 | 38 | 68          | 33             | 35             |                |                |                |                | +1             | -1             | +1             | +3             |  |

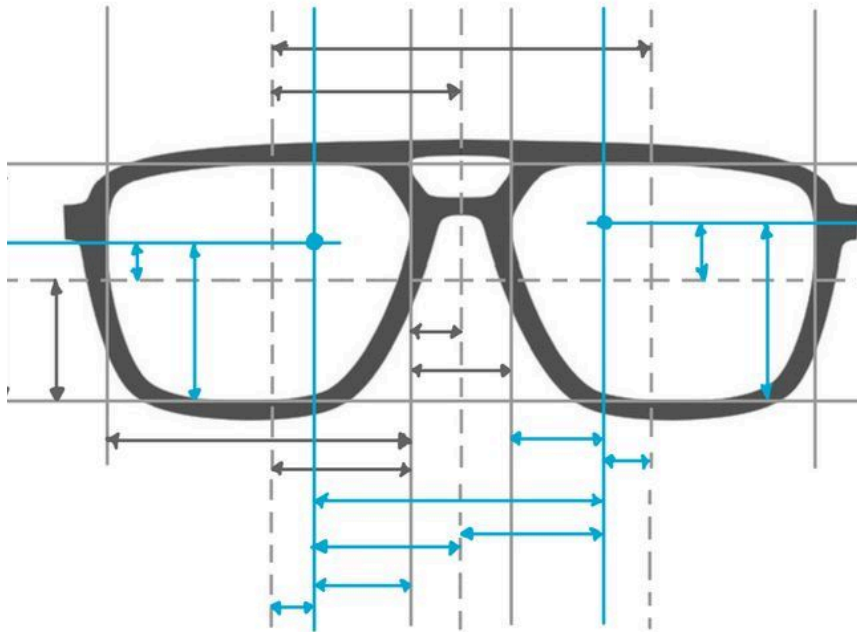


# Zentrierlehre Übungen



|   | Fassung |    |    |    | Zentrierung |                |                |                |                |                |                |                |                |                |                |      |
|---|---------|----|----|----|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
|   | c       | d  | a  | b  | z           | z <sub>R</sub> | z <sub>L</sub> | x <sub>R</sub> | x <sub>L</sub> | y <sub>R</sub> | y <sub>L</sub> | u <sub>R</sub> | u <sub>L</sub> | v <sub>R</sub> | v <sub>L</sub> |      |
| 1 |         | 20 | 50 |    |             |                |                | 22             | 22             | 17             |                |                |                |                | +2             | +2   |
| 2 | 64      | 16 |    | 44 |             |                |                | 21             | 22             | 24             | 23             |                |                |                |                |      |
| 3 |         | 19 | 52 | 43 |             | 32             | 32,5           |                |                | 24             | 25             |                |                |                |                |      |
| 4 |         | 18 | 49 |    |             |                |                | 20             | 19             | 21             |                |                |                |                | +1             | +2,5 |
| 5 | 61      |    | 46 | 38 |             |                |                |                |                |                |                |                | -2             | -1,5           | +1             | +1   |
| 6 | 74      | 20 |    | 42 |             |                |                | 21             | 21             | 20             | 19             |                |                |                |                |      |
| 7 | 63      |    | 47 | 36 |             |                |                |                |                |                |                |                | +1,5           | +2,5           | +2             | +2,5 |
| 8 |         | 19 | 48 |    |             |                |                | 20,5           | 19,5           | 19             |                |                |                |                | -1,5           | -2,5 |

# Zentrierlehre Übungen



|   | Fassung |    |    |    | Zentrierung |                |                |                |                |                |                |                |                |                |                |    |
|---|---------|----|----|----|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|
|   | c       | d  | a  | b  | z           | z <sub>R</sub> | z <sub>L</sub> | x <sub>R</sub> | x <sub>L</sub> | y <sub>R</sub> | y <sub>L</sub> | u <sub>R</sub> | u <sub>L</sub> | v <sub>R</sub> | v <sub>L</sub> |    |
| 1 |         | 22 | 54 | 40 | 64          | 32             |                |                |                | 19             | 19             |                |                |                |                |    |
| 2 |         | 20 | 52 | 40 |             | 30             | 30             |                |                |                |                |                |                |                | -2             | -2 |
| 3 | 70      |    | 54 | 44 |             |                |                |                |                |                |                |                | -1             | +1             | -3             | +2 |
| 4 | 68      |    | 54 | 42 |             |                |                |                |                |                |                |                | -1             | +1             | -2             | +1 |
| 5 | 70      | 18 | 52 | 38 |             |                |                | 27             | 23             | 22             | 18             |                |                |                |                |    |
| 6 | 68      |    | 54 | 40 |             |                |                |                |                |                |                |                | +1             | -2             | +2             | -1 |
| 7 | 66      | 14 | 52 | 38 |             |                | 37             |                |                | 18             | 21             | +5             |                |                |                |    |
| 8 | 68      |    | 54 |    |             |                |                |                | 24             | 18             |                | +4             | +3             | -2             | +1             |    |



# Zentrierlehre Übungen

⑧ Nun zurück zu unserem Kundenauftrag von Herrn Weiß:

Nach langem Suchen hast du in der Werkstatt eine passende Formscheibe für die Fassung von Herrn Weiß mit folgenden Daten gefunden:

54□40

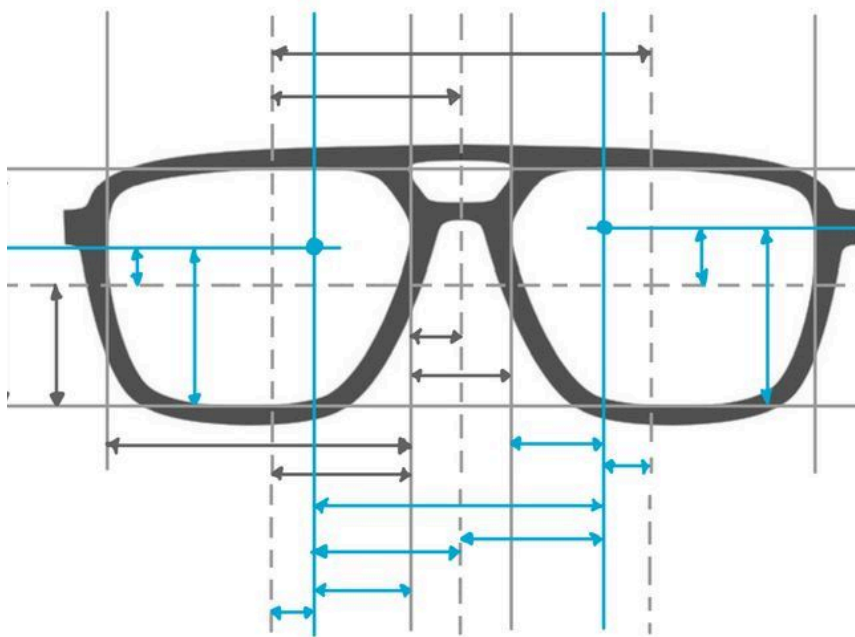


### Tipp

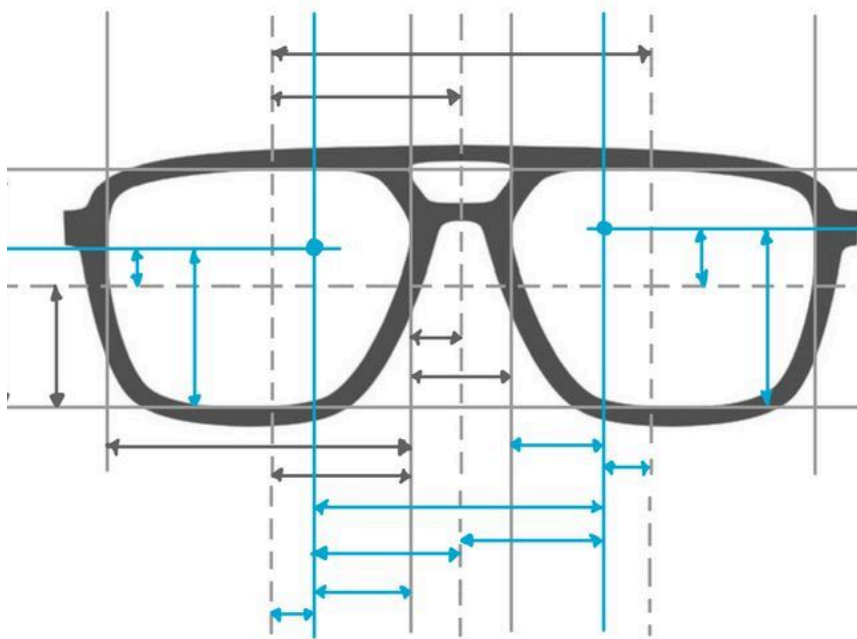
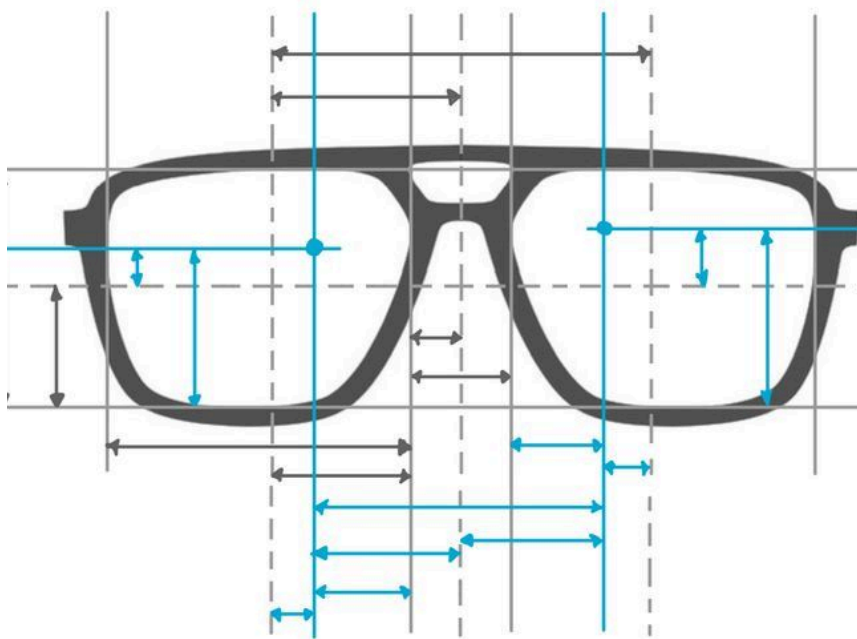
Schau dir nochmal die Kundenkartei von Herrn Weiß aus deinem Skript an, um die restlichen Daten zu finden.

Jetzt schleifst du in die Fassung von Herrn Weiß zwei neue Brillengläser ein. Ermittle die Strecken  $u$ ,  $x$  und  $v$ , jeweils für R und L und alle Fassungsgrößen.

| Fassung |   |   |   | Zentrierung |                |                |                |                |                |                |                |                |                |                |  |
|---------|---|---|---|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| c       | d | a | b | z           | z <sub>R</sub> | z <sub>L</sub> | x <sub>R</sub> | x <sub>L</sub> | y <sub>R</sub> | y <sub>L</sub> | u <sub>R</sub> | u <sub>L</sub> | v <sub>R</sub> | v <sub>L</sub> |  |
|         |   |   |   |             |                |                |                |                |                |                |                |                |                |                |  |



# Zentrierlehre Übungen



# Zentrierlehre Übungen

