

Strahlensätze

Stufe 1: 1. Strahlensatz

Name: _____

Datum: _____

Z ist das Zentrum. A und A' liegen auf dem einen Strahl, B und B' auf dem anderen, und AB ist parallel zu A'B'. Berechne die gesuchte Länge. Alle Längen in cm.

1) $ZA = 7$, $ZA' = 14$, $ZB = 6$: $ZB' =$ _____

2) $ZA = 6$, $ZB = 2$, $ZB' = 5$: $ZA' =$ _____

3) $ZA = 6$, $ZB = 2$, $ZB' = 6$: $ZA' =$ _____

4) $ZA = 8$, $ZB = 4$, $ZB' = 8$: $ZA' =$ _____

5) $ZA = 2$, $ZB = 3$, $ZB' = 12$: $ZA' =$ _____

6) $ZA = 2$, $ZA' = 5$, $ZB = 2$: $ZB' =$ _____

7) $ZA = 4$, $ZB = 4$, $ZB' = 10$: $ZA' =$ _____

8) $ZA = 7$, $ZB = 5$, $ZB' = 15$: $ZA' =$ _____

9) $ZA = 3$, $ZB = 4$, $ZB' = 12$: $ZA' =$ _____

10) $ZA = 2$, $ZA' = 3$, $ZB = 2$: $ZB' =$ _____

11) $ZA = 4$, $ZB = 8$, $ZB' = 12$: $ZA' =$ _____

12) $ZA = 7$, $ZB = 6$, $ZB' = 24$: $ZA' =$ _____

Lösungen: Strahlensätze

Stufe 1: 1. Strahlensatz

- 1) $ZA = 7, ZA' = 14, ZB = 6 : ZB' = 12$
- 2) $ZA = 6, ZB = 2, ZB' = 5 : ZA' = 15$
- 3) $ZA = 6, ZB = 2, ZB' = 6 : ZA' = 18$
- 4) $ZA = 8, ZB = 4, ZB' = 8 : ZA' = 16$
- 5) $ZA = 2, ZB = 3, ZB' = 12 : ZA' = 8$
- 6) $ZA = 2, ZA' = 5, ZB = 2 : ZB' = 5$
- 7) $ZA = 4, ZB = 4, ZB' = 10 : ZA' = 10$
- 8) $ZA = 7, ZB = 5, ZB' = 15 : ZA' = 21$
- 9) $ZA = 3, ZB = 4, ZB' = 12 : ZA' = 9$
- 10) $ZA = 2, ZA' = 3, ZB = 2 : ZB' = 3$
- 11) $ZA = 4, ZB = 8, ZB' = 12 : ZA' = 6$
- 12) $ZA = 7, ZB = 6, ZB' = 24 : ZA' = 28$