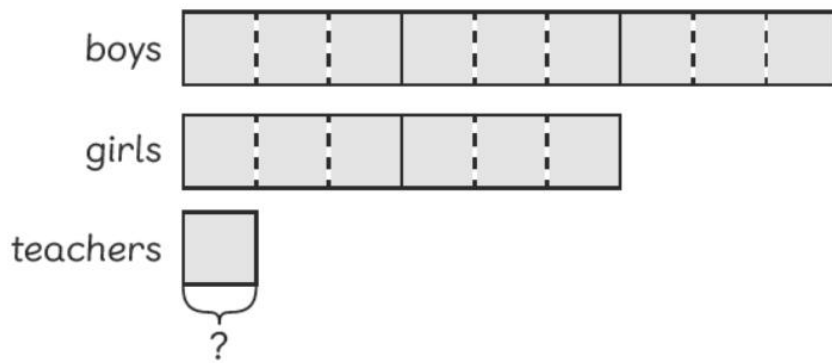


Worksheet 8

Solving Word Problems

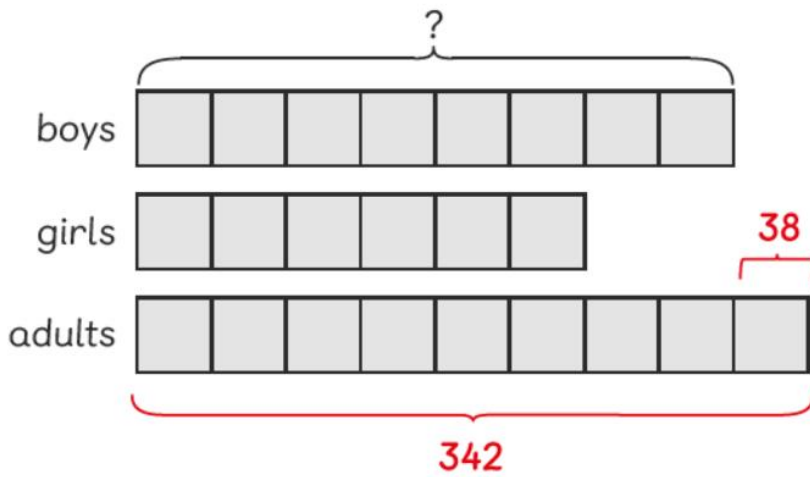
- 1 In a school, the ratio of the number of boys to the number of girls is 3 : 2. The ratio of the number of boys to the number of teachers is 9 : 1. There are 300 pupils altogether. How many teachers are there in the school?



$$300 \div 15 = 20$$

There are 20 teachers.







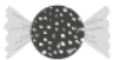

- 2 At a funfair, the ratio of the number of boys to the number of girls is 4 : 3. The ratio of the number of adults to the number of girls is 3 : 2. There are 342 adults. How many boys are there at the funfair?



$$342 \div 9 = 38$$

$$38 \times 8 = 304$$

There are 304 boys at the funfair.

3 There are three types of sweets in a jar,   . The ratio of the number of  to the number of  is 3 : 1. The ratio of the number of  to the number of  is also 3 : 1. There are 39 sweets in the jar. Find the number of  in the jar.

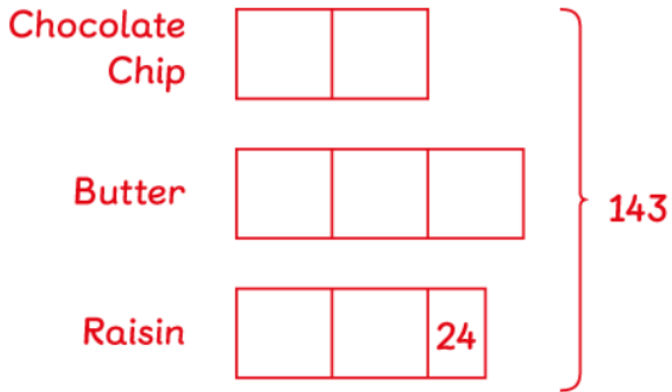


$$39 \div 13 = 3$$

$$3 \times 9 = 27$$

There are 27  sweets in the jar.

- 4 Hannah baked some chocolate chip cookies, some butter cookies and some raisin cookies. The ratio of the number of chocolate chip cookies to the number of butter cookies she baked is 2 : 3. She baked 24 more raisin cookies than chocolate chip cookies. Hannah baked 143 cookies in all. How many raisin cookies did she bake?



$$(143 - 24) \div 7 = 17$$

$$17 \times 2 + 24 = 58$$

She baked 58 raisin cookies.