

## Ratio problems

$$2+2=4$$

Fluency



1) Complete the ratio table to show the relationship between goblins and elves.

| goblins | elves |
|---------|-------|
| 3       | 9     |
|         | 15    |
| 6       |       |
|         | 30    |
|         | 75    |

## Ratio problems

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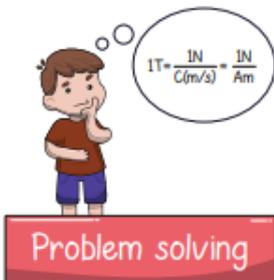
Fluency



2) Hayden is completing a sponsored walk.  
For every km he walks, he will raise £5.50.  
How much will Hayden raise if he walks:

- a) 4 km? \_\_\_\_\_
- b) 20km? \_\_\_\_\_
- c) How many km will he need to walk to raise £66? \_\_\_\_\_

# Ratio problems

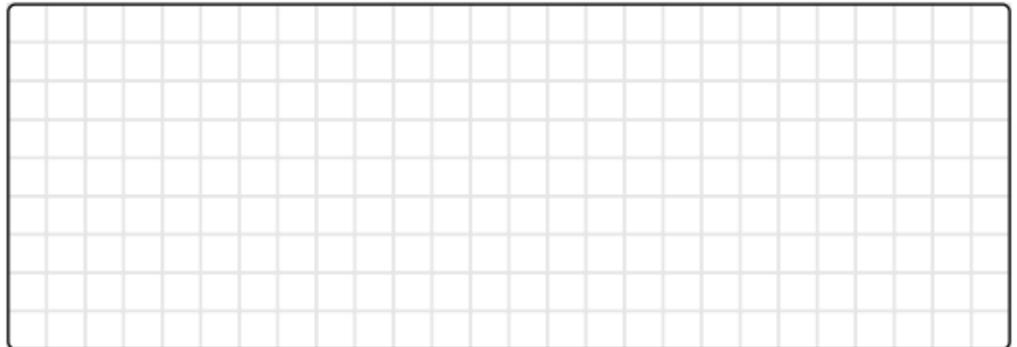


3) In a zoo, for every 6 penguins, there are 9 meerkats.

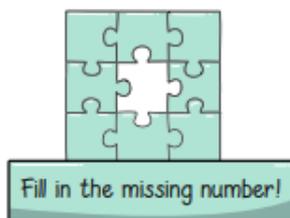
a) If there are 45 meerkats, how many animals are there altogether? \_\_\_\_\_

b) If there are 90 animals together, how many penguins are there? \_\_\_\_\_

c) If there are 18 penguins, how many more meerkats are there? \_\_\_\_\_



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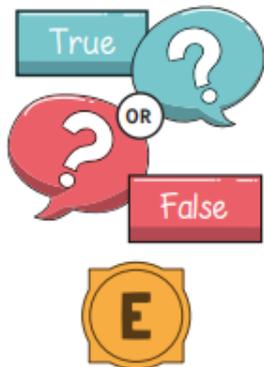


4) There are 7 students to every 6 bottles of potion.

A wizard is working out how many bottles of potion the class will need 4 years from now if the number of students doubles every year.

Use a double number line to solve the problem.

## Ratio problems



5) In a bag, there are chocolates and caramels.

The ratio of chocolates to caramels is 4:6. There are 60 sweets altogether.

Alisha-Thea says: 30 of the sweets are caramels.

Do you agree? Explain your answer.

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## Ratio problems



6) At a cricket match, the ratio of home fans to away fans is 4:7.

Josh says: this means that for every 80 home fans there are 70 away fans.

Do you agree? Explain your answer.

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