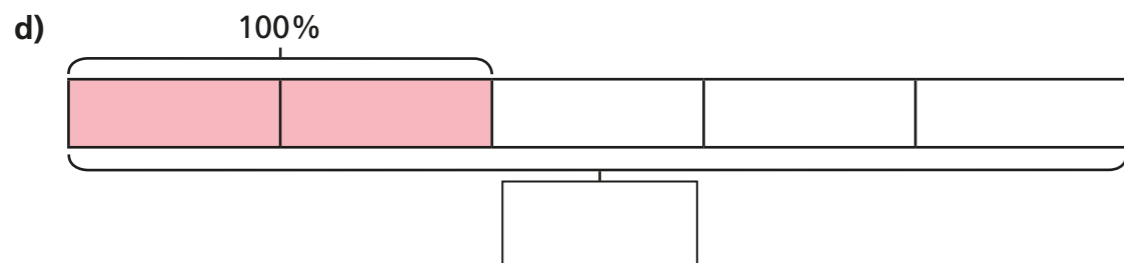
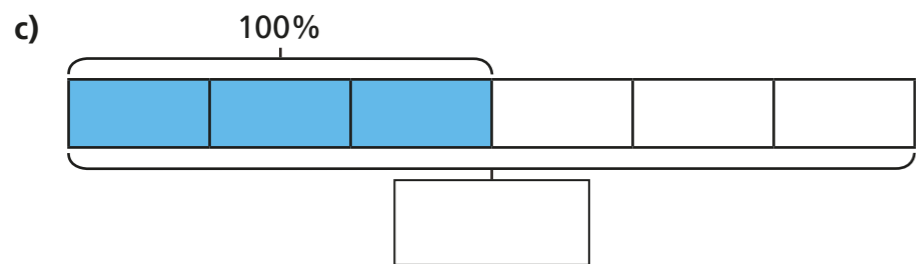
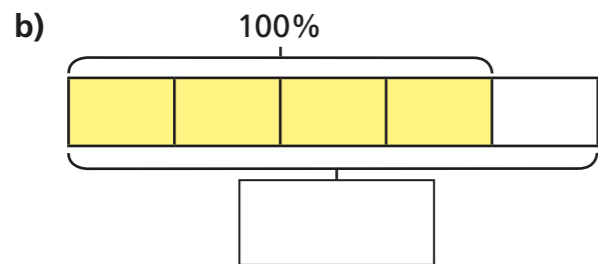
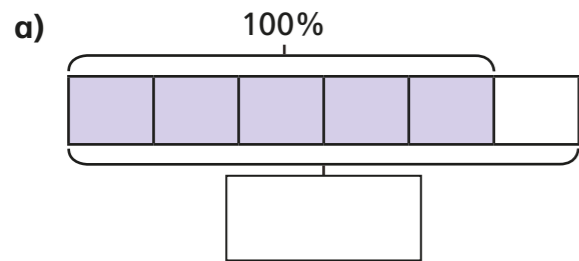


Solve problems with fractions greater than 1 and percentages greater than 100%

H

1 Fill in the missing percentages.



2 Use the bar models in question 1 to calculate the values.

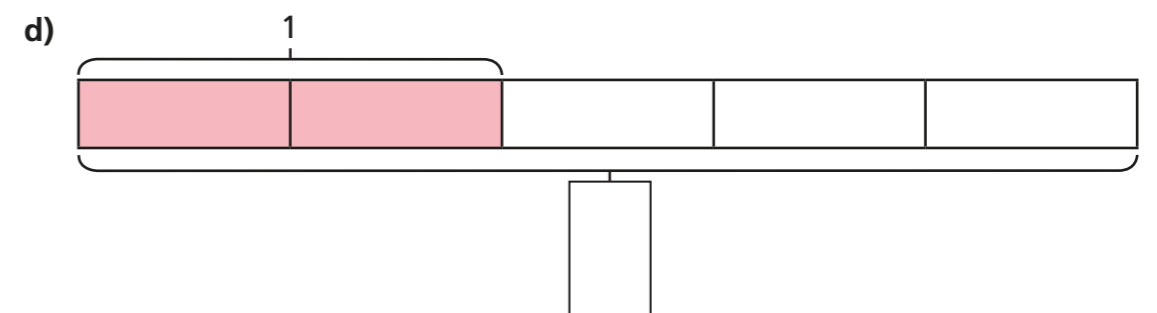
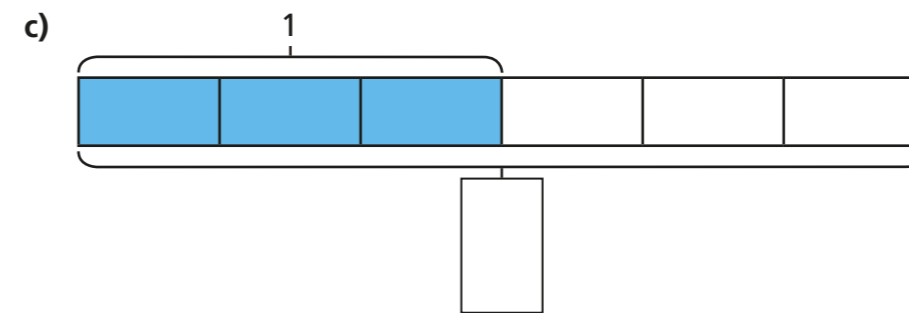
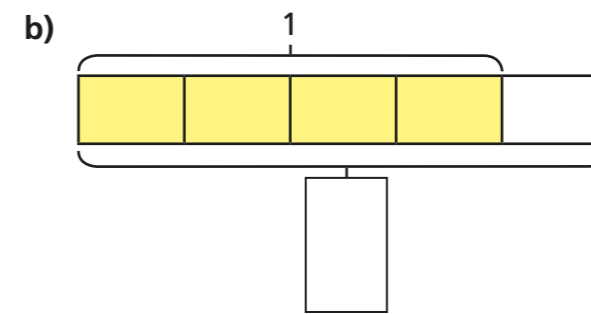
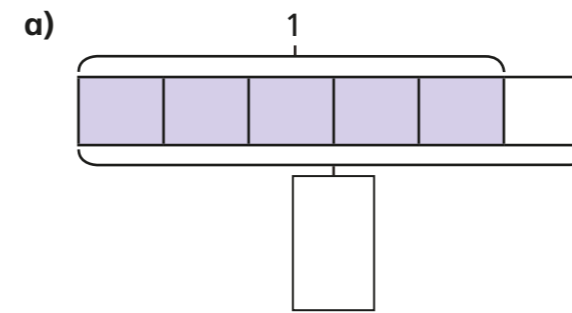
a) 120% of 60 =

c) 200% of 60 =

b) 125% of 60 =

d) 250% of 60 =

3 Fill in the missing fractions.




4 Use the bar models in question 3 to fill in the missing values.

a) $\frac{6}{5}$ of 80 =

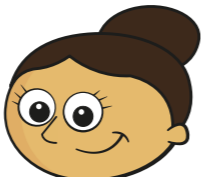
c) of 80 =

b) of 80 =

d) of 80 =

5 a)  I scored 120% on my test.

Is this possible? _____
 Explain your answer to a partner.

b)  My test score is 120% of what it was last time.

Is this possible? _____
 Explain your answer to a partner.

6 A kitten was weighed when it was born.
 After two weeks the kitten's weight had increased by 160%.
 By what fraction had the kitten's weight increased?

7 A bottle of orange juice contains free extra juice as a special offer.



What percentage is the new amount of the original amount?

What fraction is the new amount of the original amount?

8 Match the equivalent cards.

$$\frac{9}{4}$$

$$1.5$$

$$120\%$$

$$\frac{3}{2}$$

$$1.25$$

$$225\%$$

$$\frac{6}{5}$$

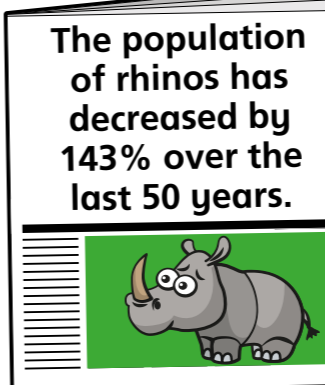
$$2.25$$

$$150\%$$

$$\frac{5}{4}$$

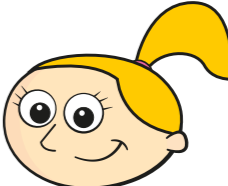
$$1.2$$

$$125\%$$

9  The population of rhinos has decreased by 143% over the last 50 years.

Is the newspaper article accurate?

10 Dexter receives a 125% increase in his pocket money.

 Dexter's pocket money has been multiplied by 1.25 because 125% is equivalent to 1.25

Explain the mistake that Eva has made.
