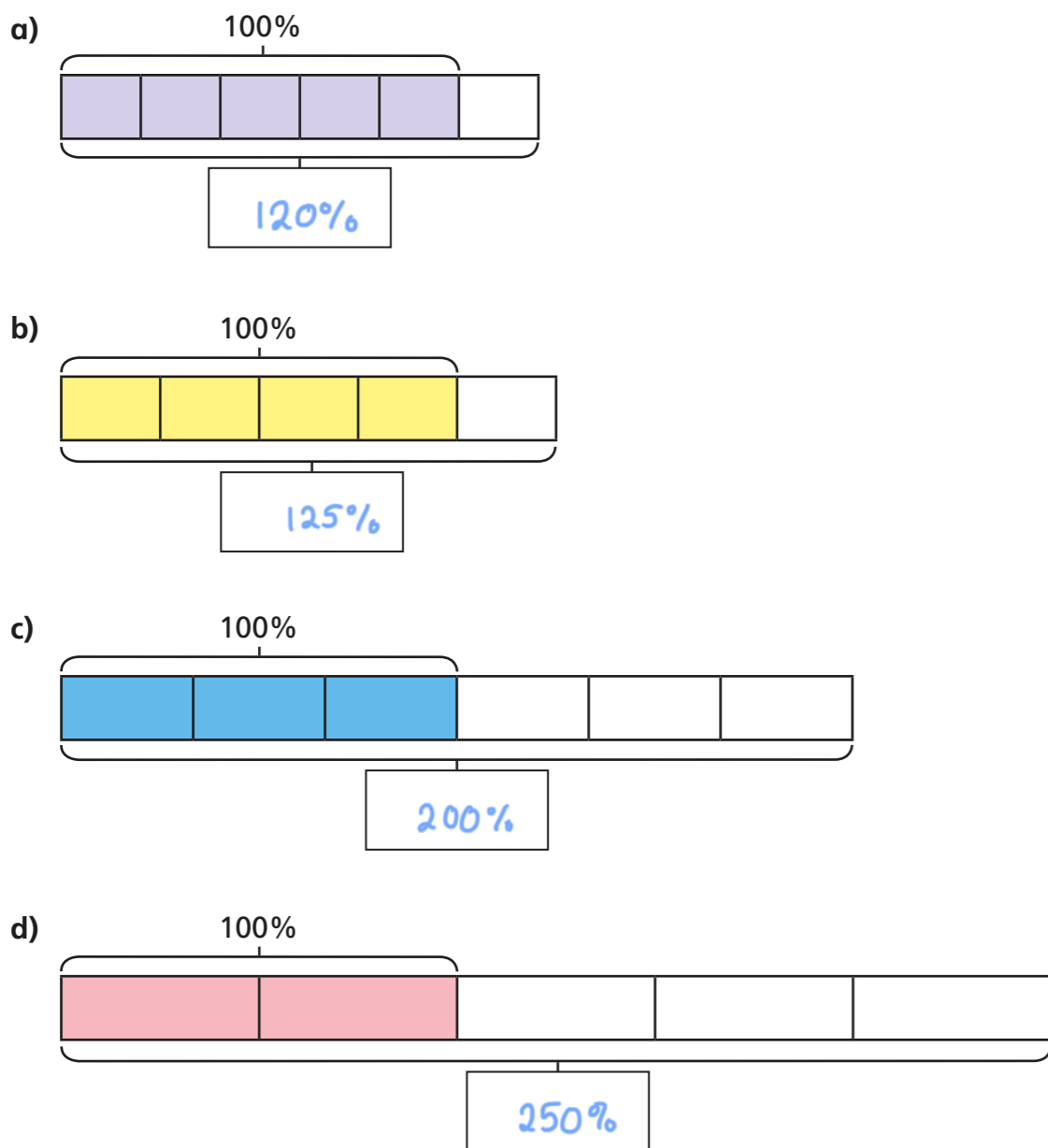


Solve problems with fractions greater than 1 and percentages greater than 100%

H

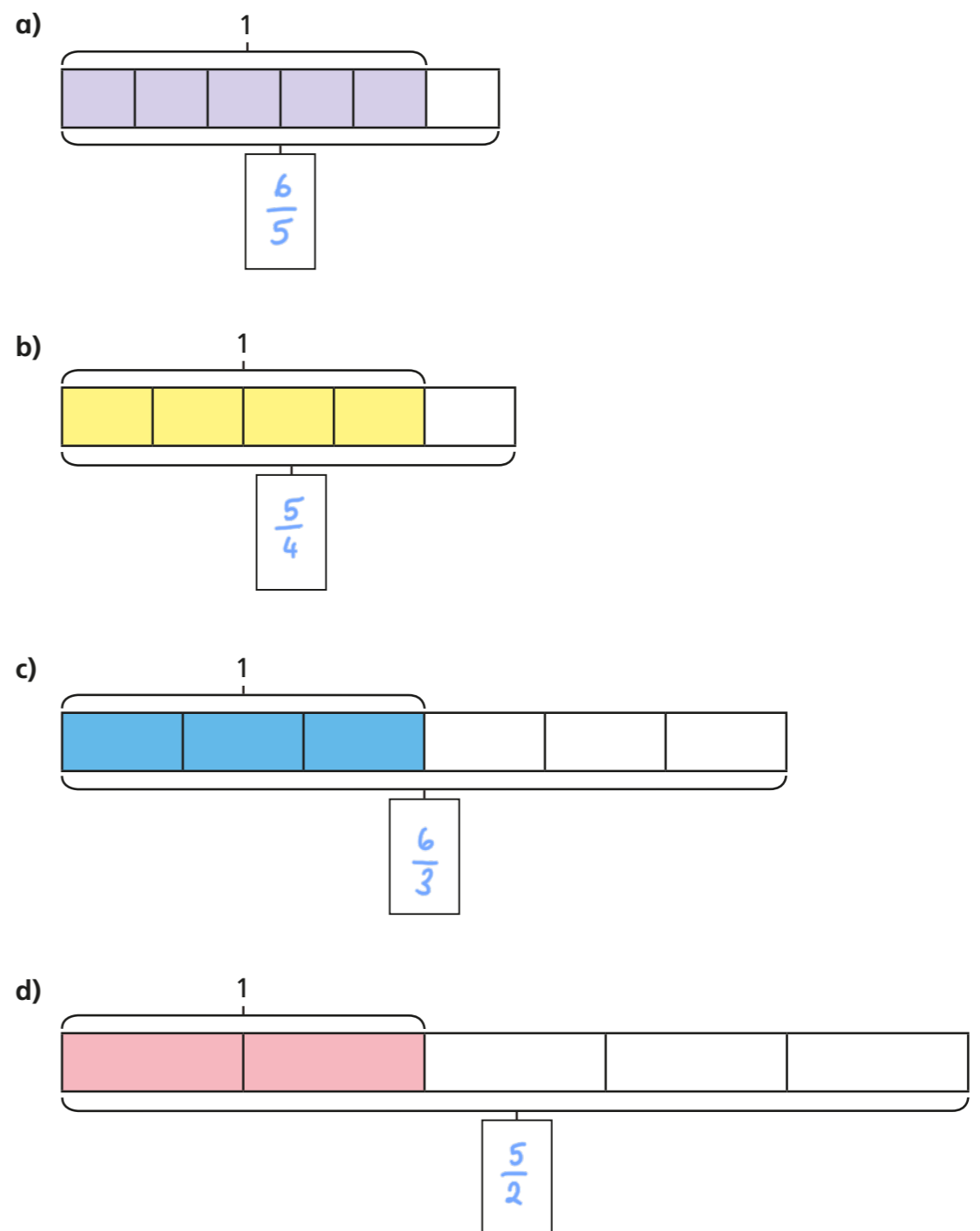
1 Fill in the missing percentages.



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

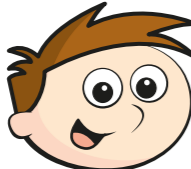
- a) 120% of 60 = c) 200% of 60 =
- b) 125% of 60 = d) 250% of 60 =

3 Fill in the missing fractions.



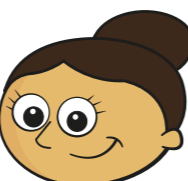
4 Use the bar models in question 3 to fill in the missing values.

- 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? No

Explain your answer to a partner.

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

Is this possible? Yes

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?

$\frac{5}{8}$

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



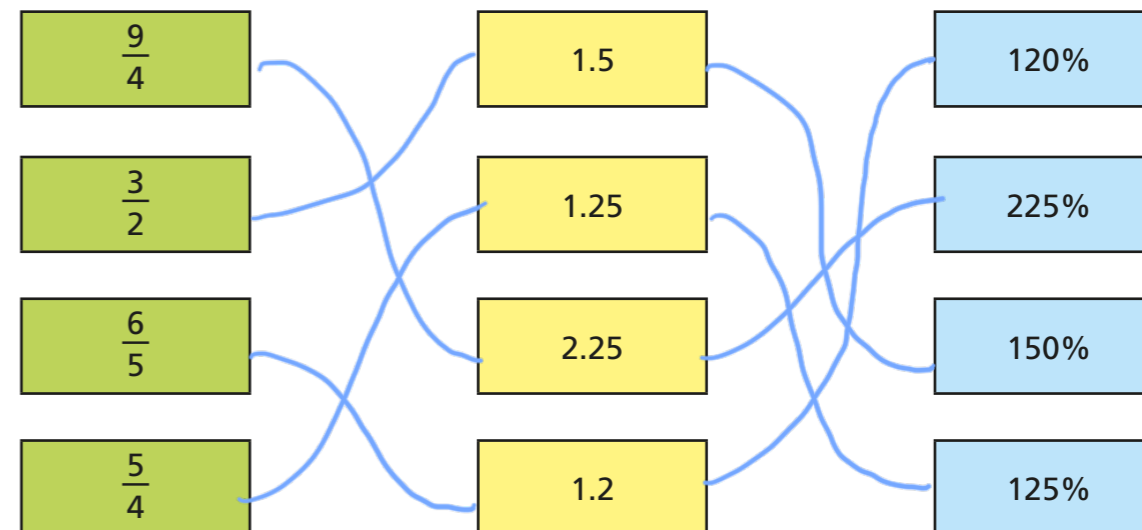
What percentage is the new amount of the original amount?

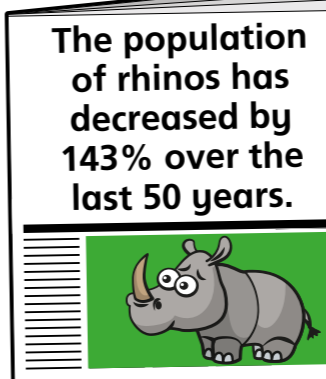
175%

What fraction is the new amount of the original amount?

$\frac{7}{4}$

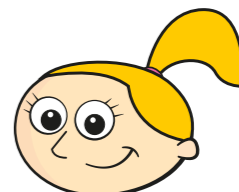
8 Match the equivalent cards.



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.

It has increased by 125% so 100% + 125% = 225%
and its been multiplied by 2.25