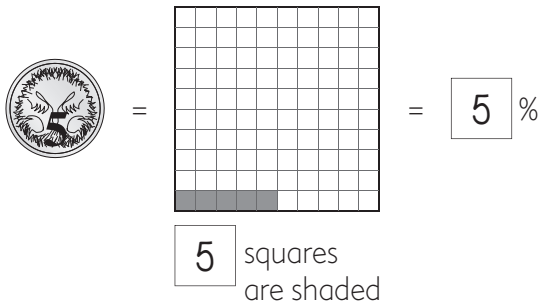




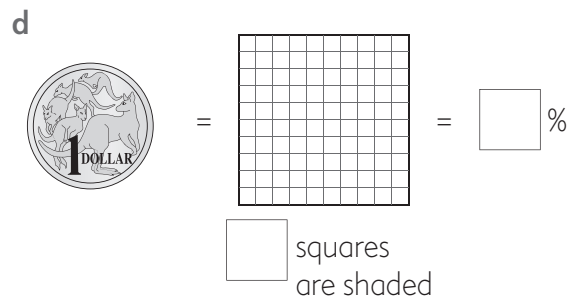
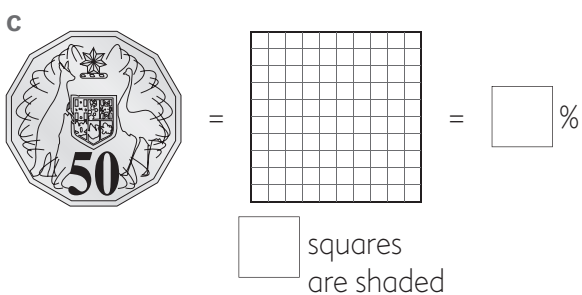
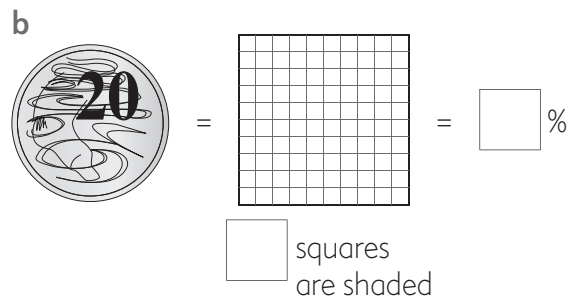
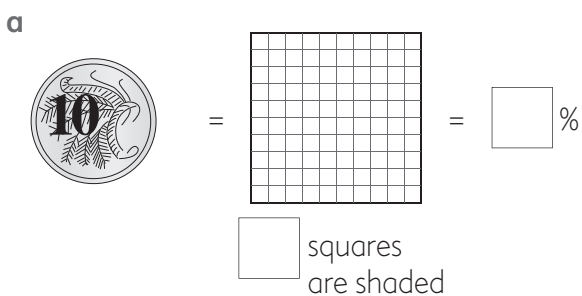
NA22 Percentages

There are 100 cents in one dollar.

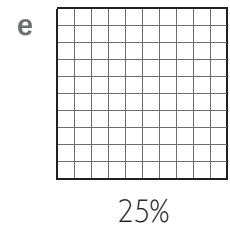
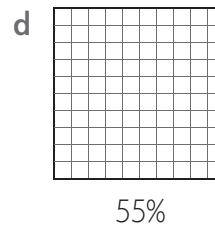
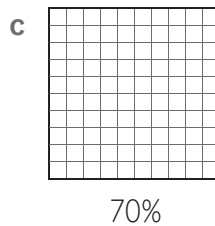
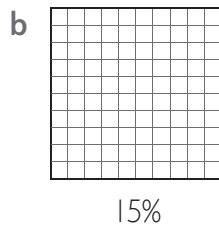
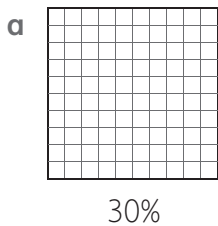
A 5 cent coin is 5 percent (5%) which means 5 of one hundred.



1 Complete these grids for these coins.



2 Shade the grids for the percentage shown.





NA22 Percentages

1 Shade the percentage grid equal to the common fraction beside it, and write what percentage is shaded.

a $\frac{3}{10}$ %

b $\frac{8}{10}$ %

c $\frac{2}{5}$ %

d $\frac{7}{10}$ %

e $\frac{1}{10}$ %

f $\frac{4}{5}$ %

2 In the questions below there are four items – a fraction box, a fraction grid, a percentage box and a percentage grid. For each question, you are given one completed box or grid. Use that to complete the other three items.

a %

b 60%

c %

d %

e 40%

f %

3 Arrange these fractions and percentages together in order from smallest to largest: $\frac{9}{10}$, 55%, $\frac{1}{4}$, $\frac{2}{5}$, 85%, 10%.

4 One hundred students were asked how they travelled to school.

- a** How many students came by bus?
- b** What total percentage came to school by bicycle or walked?
- c** Which type of transport is closest to $\frac{1}{5}$?
- d** Half of the students who rode a bicycle were boys.
What percentage of the bicycle riders were girls? How many boys rode a bicycle to school?

	Percentage
walk	3
bicycle	40
bus	21
car	36



NA22 Percentages

1 Look at the nutrition information for these food items. Convert the per 100 g into a percentage.

a Honey

Average	per 100 g	%
Protein	0.3 g	
Fat total	0 g	
Carbohydrate	83.1 g	
Sodium	15 mg	

b Peanut butter

Average	per 100 g	%
Protein	22.5 g	
Fat total	50.9 g	
Carbohydrate	12.6 g	
Sodium	590 mg	

2 Complete the nutrition information for a food item of your choice.

Food:		
Average	per 100 g	%
Protein		
Fat total		
Carbohydrate		
Sodium		

3 Complete the table below to show the total grams and percentage for the three food items above.

Average	Total g	Total %
Honey		
Peanut butter		

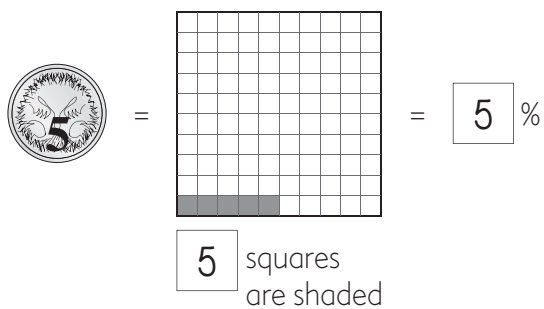
4 Explain why the nutrition information for each food item is less than 100 g or 100%.



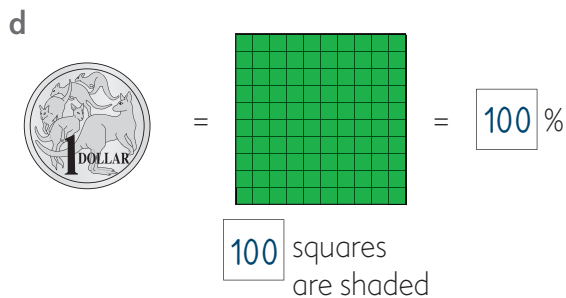
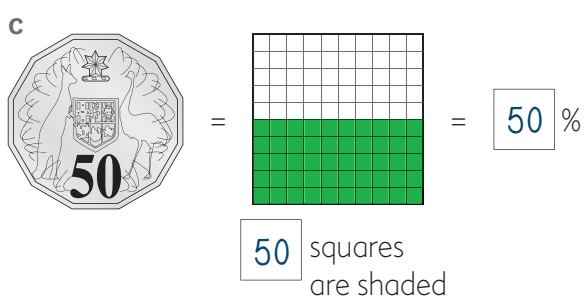
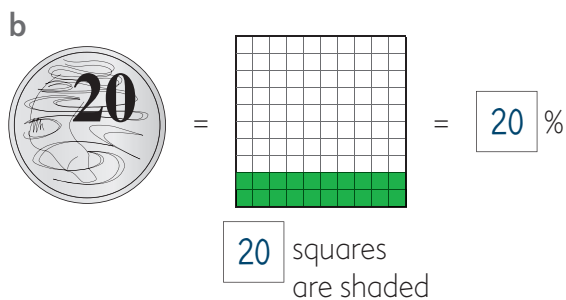
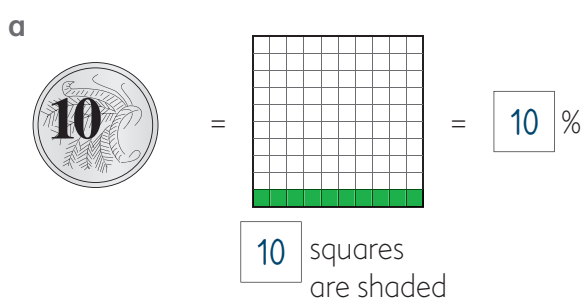
NA22 Percentages

There are 100 cents in one dollar.

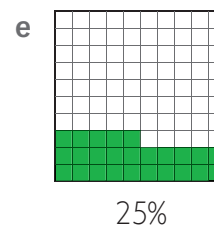
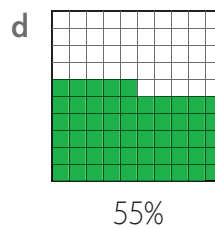
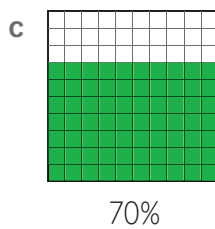
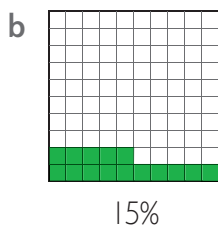
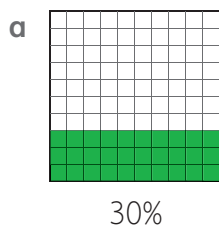
A 5 cent coin is 5 percent (5%) which means 5 of one hundred.



1 Complete these grids for these coins.



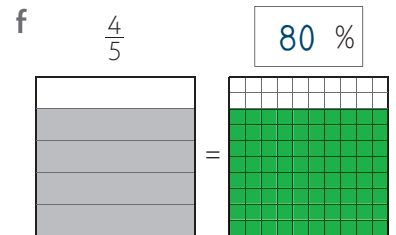
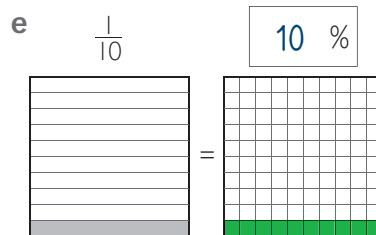
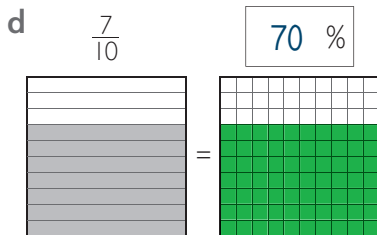
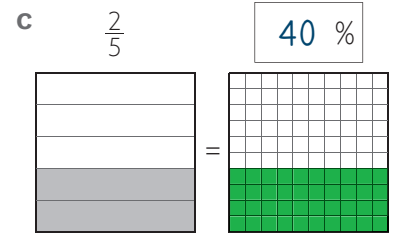
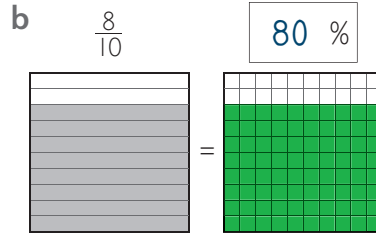
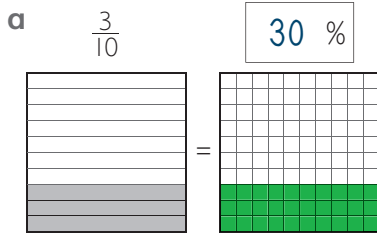
2 Shade the grids for the percentage shown.



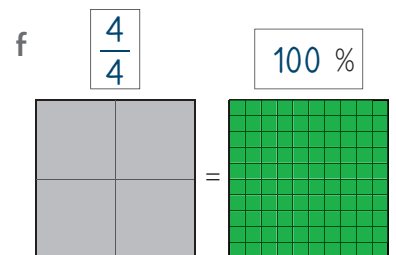
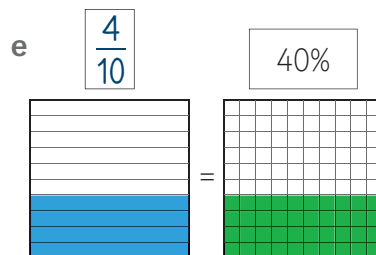
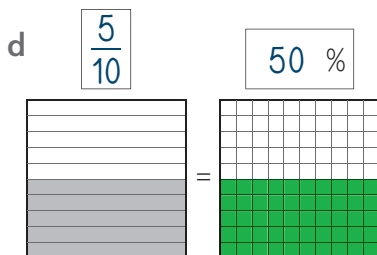
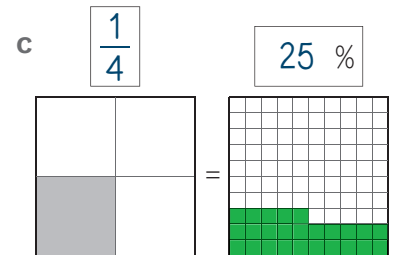
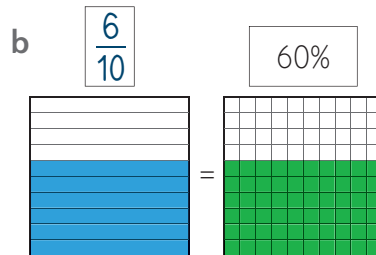
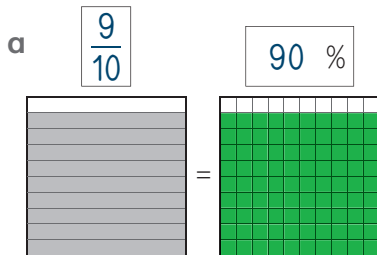


NA22 Percentages

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2 In the questions below there are four items – a fraction box, a fraction grid, a percentage box and a percentage grid. For each question, you are given one completed box or grid. Use that to complete the other three items.



3 Arrange these fractions and percentages together in order from smallest to largest: $\frac{9}{10}$, 55%, $\frac{1}{4}$, $\frac{2}{5}$, 85%, 10%.

10%, $\frac{1}{4}$, $\frac{2}{5}$, 55%, 85%, $\frac{9}{10}$

4 One hundred students were asked how they travelled to school.

a How many students came by bus? 21

b What total percentage came to school by bicycle or walked? 43

c Which type of transport is closest to $\frac{1}{5}$? Bus

d Half of the students who rode a bicycle were boys.
 What percentage of the bicycle riders were girls? 20% How many boys rode a bicycle to school? 20

	Percentage
walk	3
bicycle	40
bus	21
car	36



NA22 Percentages

1 Look at the nutrition information for these food items. Convert the per 100 g into a percentage.

a Honey

Average	per 100 g	%
Protein	0.3 g	0.3%
Fat total	0 g	0%
Carbohydrate	83.1 g	83.1%
Sodium	15 mg	0.015%

b Peanut butter

Average	per 100 g	%
Protein	22.5 g	22.5%
Fat total	50.9 g	50.9%
Carbohydrate	12.6 g	12.6%
Sodium	590 mg	0.59%

2 Complete the nutrition information for a food item of your choice.

TEACHER TO CHECK

Food:		
Average	per 100 g	%
Protein		
Fat total		
Carbohydrate		
Sodium		

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TEACHER TO CHECK

Average	Total g	Total %
Honey		
Peanut butter		

4 Explain why the nutrition information for each food item is less than 100 g or 100%.

TEACHER TO CHECK
