1) Use the bar models to help answer the following questions.

a) 18 is 10% of what number?
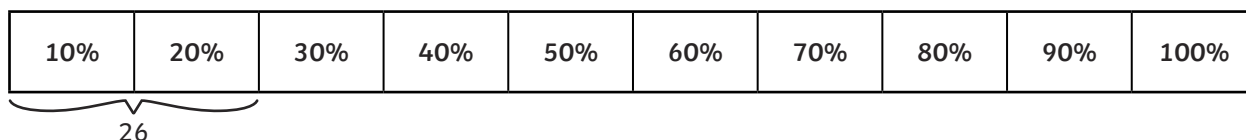
Total = _____

10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

18
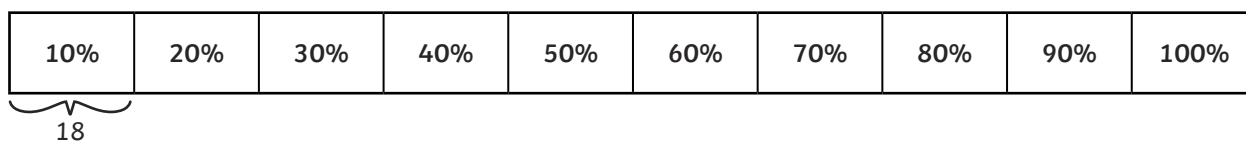
When the bar model shows 10% of a number, how does this help us to find the value of the whole?

_____

_____

b) 26 is 20% of what number?

Total = _____

10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

26

When the bar model shows 20%, how does this help us to find the whole number?

_____

_____

2) Find the missing number in each question.

a) 20% of _____ = 30

b) 30% of _____ = 120

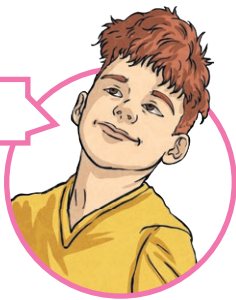**c)** 40% of _____ = 800

d) 60% of _____ = 1200

3) Before travelling, Anna separated her money evenly into different bags. Each bag contained 20% of her money. 2 of Anna's bags have a combined total of £24. How much money has Anna got altogether?
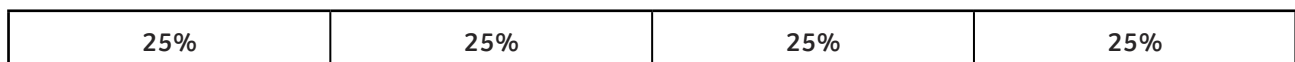
_____

_____

1) Jack says,

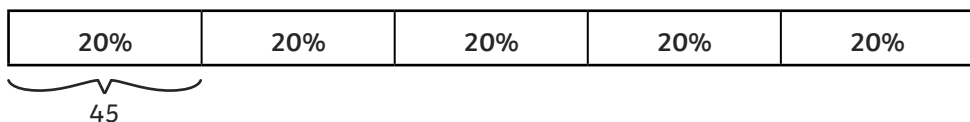I think that bar model A has a total value of 270.

Do you agree with Jack? Explain your reasoning.

_____

_____

_____

_____

Total of A = _____

25%	25%	25%	25%

Total of B = _____

20%	20%	20%	20%	20%

45

2) True or False?

The number 60 can complete these statements correctly.

a) 25% of _____ = _____% of 25

_____

b) _____% of 10 = 10% of _____

_____

c) _____% of 120 = 50% of _____

_____

1) Use the information given to work out the size of a whole field and the missing measurements for each field.
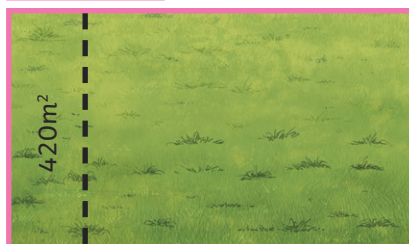
18m²

20% of the field measures 18m².

The whole size of the field is _____.

55% + 15% of the field measures _____.

420m²

15% of the field measures 420m².

The whole size of the field is _____.

55% + 15% of the field measures _____.

2) A farmer wants to plant vegetable crops on some of his fields. He has two fields: the largest has an area of 480m² and the other has an area of 450m². For each of his crops, give the area that would be planted in both fields.

Crop	Area Covered by Crop in 480m² Field	Area Covered by Crop in 450m² Field
Potatoes: 25%	120m²	
Onions: 5%		
Cauliflower: 40%		
Carrots: 30%		