Lockdown	
Date	19.01.21
Subject/s	Maths
Learning Objective	To find the whole amount using percentages

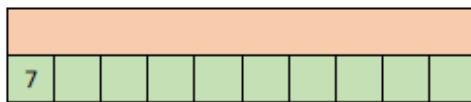|		SA	TA
Success Criteria	I know 100% is a whole		
	I can show the information I know in a bar model		
	I can multiply the information I know by how many parts are in a whole e.g. 10% x 10 = 100%		
Support	Independent Adult Support ( ) Group Work		

Pre-task

If 7 is 10% of a number, what is the number?

Use the bar model to help you.

		7									

Complete:
Use a bar model to help you if you need.

10% of ☐ = 15   ☐ % of 150 = 45

30% of ☐ = 90   30% of ☐ = 900

1. 50% of ___ = 25
2. 50% of ___ = 70
3. 10% of ___ = 3
4. 10% of ___ = 4
5. 30% of ___ = 6
6. 25% of ___ = 60
7. 75% of ___ = 15
8. 40% of ___ = 20
9. 25% of ___ = 17
10. 70% of ___ = 56
11. 90% of ___ = 108
12. 1% of ___ = 1.7

<u>Answers</u>

1) 50
2) 140
3) 30
4) 40
5) 20
6) 240
7) 20
8) 50
9) 68
10) 80
11) 120
12) 170

Problem Solving and Reasoning

A golf club has 200 members.

58% of the members are male.
50% of the female members are children.

(a) How many male members are in the golf club?
(b) How many female children are in the golf club?

350,000 people visited the Natural History Museum last week.
15% of people visited on Monday.
40% of people visited on Saturday.
How many people visited the Natural History Museum the rest of the week?

What percentage questions can you ask about this bar model?

3.5			

25% of ☐ = ☐ % of 60

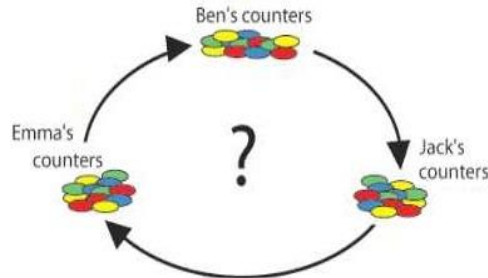| Answers |
| --- |
| 116 male members

42 female children |
| 40% + 15% = 55%

Therefore 45% visited the rest of the week.

45% = 157,500 people |
| If 20% of a number is 3.5, what is the number? |
| 25% of 120 = 50% of 60
25% of 24 = 10% of 60
25% of 2.4 = 1% of 60 |

Further Challenge

Ben, Jack and Emma were playing a game with a box of 40 counters - they were not using all of them.

They each had a small pile of counters in front of them.

All at the same time, Ben passed a third of his counters to Jack, Jack passed 25% of his counters to Emma, and Emma passed a 10% of her counters to Ben.

They all passed on more than one counter.

After this they all had the same number of counters.

How many could each of them have started with?