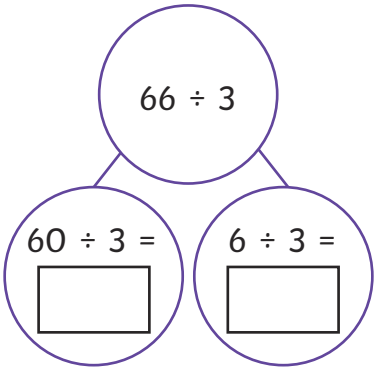
Divide a 2-Digit Number by a 1-Digit Number with No Exchange

To divide a 2-digit number by a 1-digit number with no exchange.

1) Solve the division calculations. Use the place value charts and complete the part-whole models to help you.

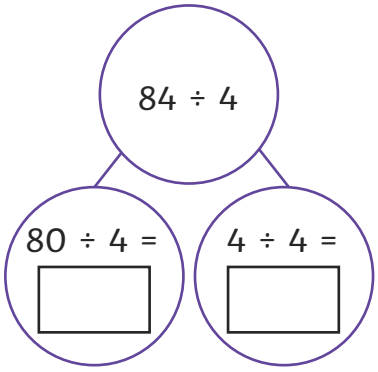
a) 66 ÷ 3 = ☐

Tens	Ones
10 10	1 1
10 10	1 1
10 10	1 1



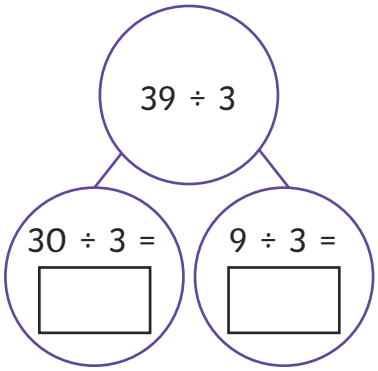
b) 84 ÷ 4 = ☐

Tens	Ones
10 10	1
10 10	1
10 10	1
10 10	1



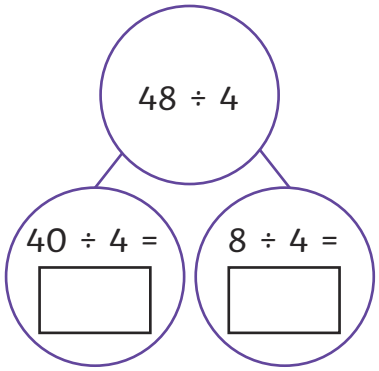
c) 39 ÷ 3 = ☐

Tens	Ones
10	1 1 1
10	1 1 1
10	1 1 1



b) 48 ÷ 4 = ☐

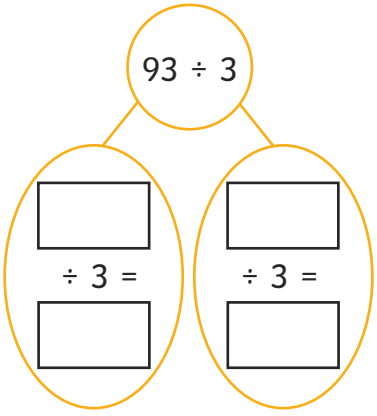
Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1



2) Draw the counters on the place value chart and complete the part-whole models to help you solve the divisions.

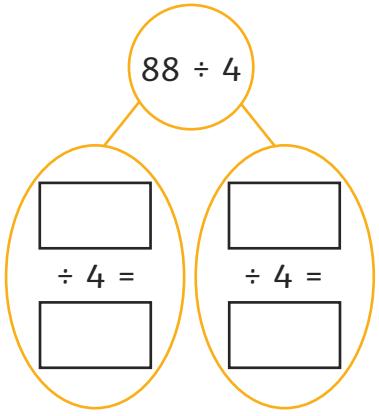
a) 93 ÷ 3 = ☐

Tens	Ones



a) 88 ÷ 4 = ☐

Tens	Ones



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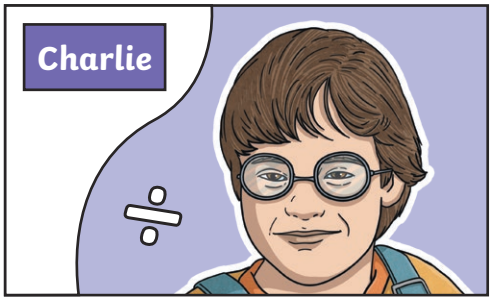
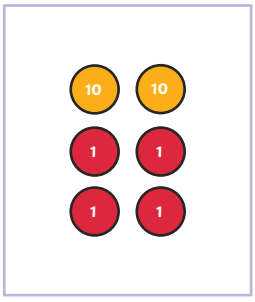
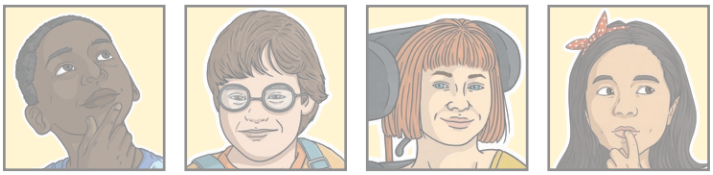
3) Charlie has used place value counters to help him calculate the answer to 24 ÷ 2. He says that the answer is 12. Is he correct? Use the place value chart to help you explain your answer.

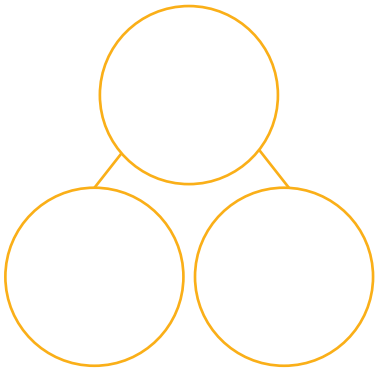




Tens	Ones

4) Mia is sharing her bag of gummy bears with her friends. She has 45 gummy bears and shares them equally with 4 of her friends. How many gummy bears does each child get?





□ ÷ □ = □

□ ÷ □ = □

□ + □ = □

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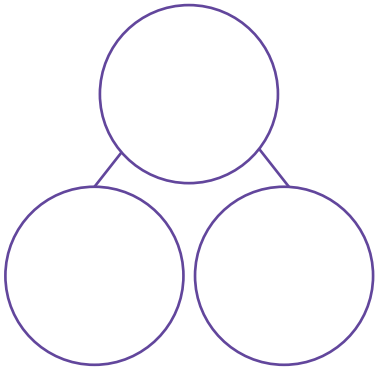
Divide a 2-Digit Number by a 1-Digit Number with No Exchange

To divide a 2-digit number by a 1-digit number with no exchange.

1) Draw the counters on to the place value charts and complete the part-whole models to solve the division calculations.

a) 63 ÷ 3 = ☐

Tens	Ones



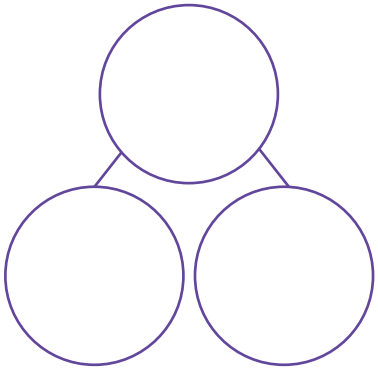
60 ÷ ☐ = ☐

3 ÷ ☐ = ☐

☐ + ☐ = ☐

b) 96 ÷ 3 = ☐

Tens	Ones



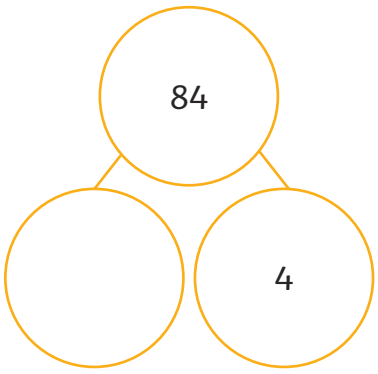
☐ ÷ ☐ = ☐

☐ ÷ ☐ = ☐

☐ + ☐ = ☐

2) Complete the missing numbers in the following division calculations.

a)

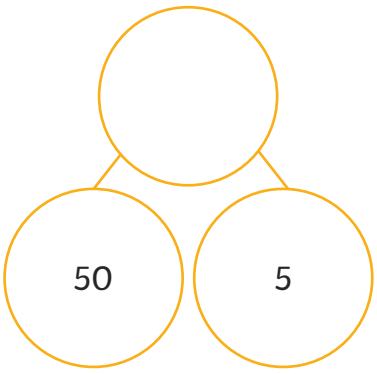


☐ ÷ 4 = ☐

☐ ÷ 4 = ☐

☐ + ☐ = ☐

b)



☐ ÷ ☐ = 10

☐ ÷ ☐ = 1

☐ + ☐ = ☐

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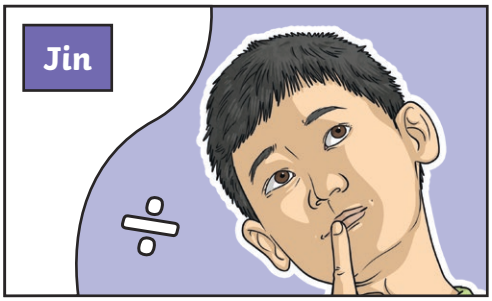
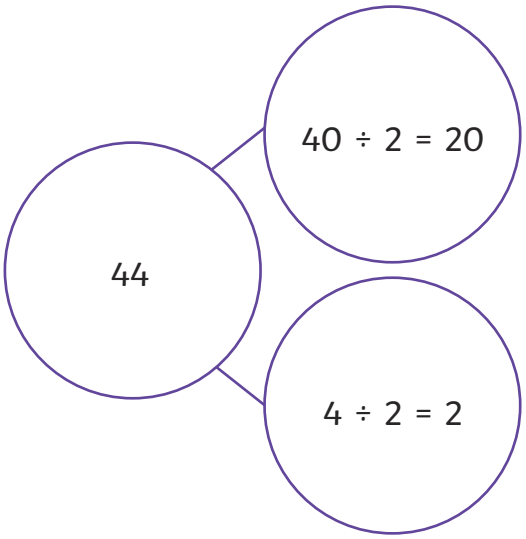
3) Jin has used a part-whole model to calculate 44 ÷ 4. He has used the partition method and believes that the answer is 22. Mia thinks that Jin is incorrect. Who is correct? Explain your answer.





4) Solve the following word problems.

a) 99 children are going to eat lunch in the school cafeteria. 9 children can fit around 1 table. How many tables need to be put out?

b) Mrs Wilson needs to read with 35 children in a school week. How many children does she need to listen to each day?

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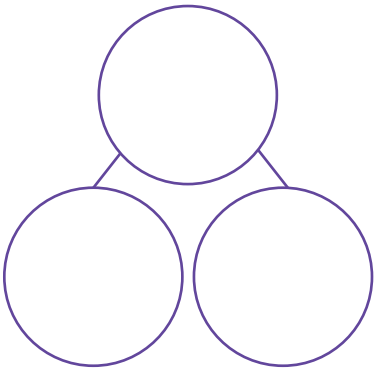
Divide a 2-Digit Number by a 1-Digit Number with No Exchange

To divide a 2-digit number by a 1-digit number with no exchange.

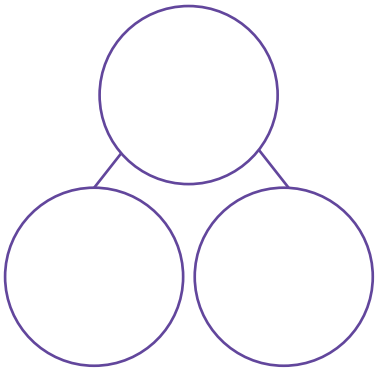
1) Use the part-whole models to calculate the following division calculations.

a) 85 ÷ 5



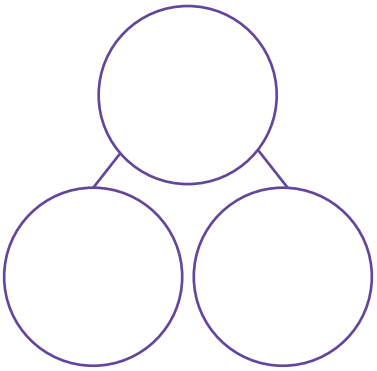
80	÷		=		
	÷		=		
	+		=		

b) 66 ÷ 6



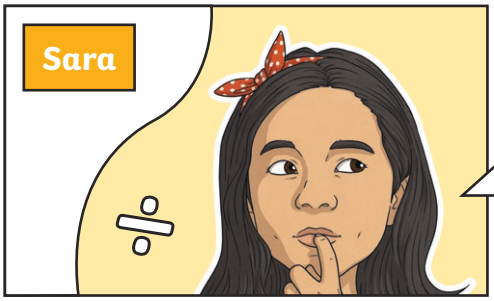
	÷		=		
	÷		=		
	+		=		

c) 88 ÷ 8



	÷		=		
	÷		=		
	+		=		

2) Do you agree with Sara? Explain your reasoning.



The answer to 96 ÷ 3 must be greater than the answer to 68 ÷ 2 as both the divisor (the number you are dividing by) and dividend (the number you are dividing) are greater.

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3) Compare the division calculations using <, > and =.

a) 24 ÷ 4 ☐ 36 ÷ 3

b) 48 ÷ 4 ☐ 42 ÷ 2

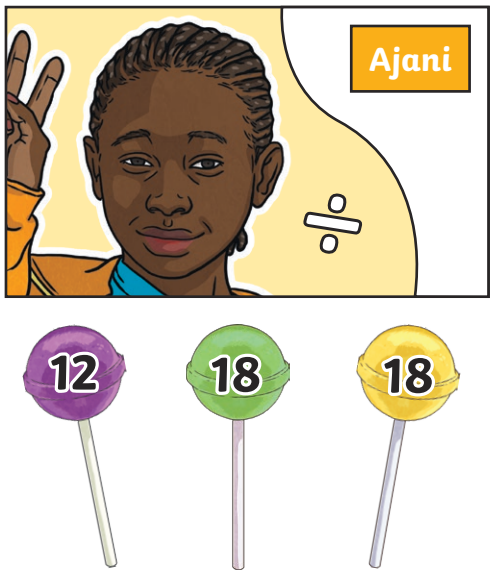
c) 36 ÷ 3 ☐ 48 ÷ 4

d) 84 ÷ 4 ☐ 99 ÷ 3

4) Butterflies have 4 wings. Use your knowledge of multiplication and partitioning to solve the divisions. Write your answers in the table.

Number of Wings	Number of Butterflies
28	
44	
48	
80	
88	

5) Ajani has 12 blackcurrant, 18 lime and 18 lemon lollipops. He divides them equally between 4 bowls. How many lollipops are in each bowl?



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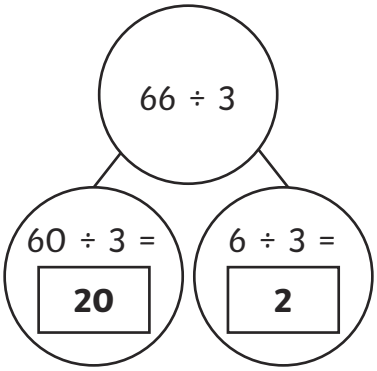
Answers

1) Solve the division calculations. Use the place value charts and complete the part-whole models to help you.

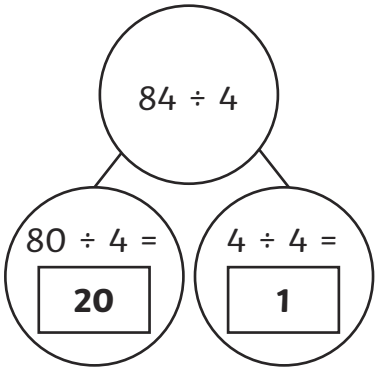
a) 66 ÷ 3 = **22**

Tens	Ones
10 10	1 1
10 10	1 1
10 10	1 1



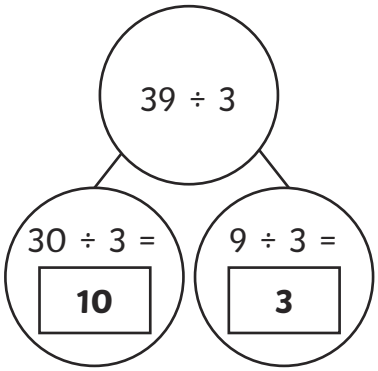
b) 84 ÷ 4 = **21**

Tens	Ones
10 10	1
10 10	1
10 10	1
10 10	1



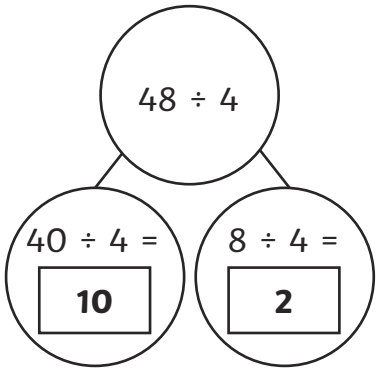
c) 39 ÷ 3 = **13**

Tens	Ones
10	1 1 1
10	1 1 1
10	1 1 1



b) 48 ÷ 4 = **12**

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1



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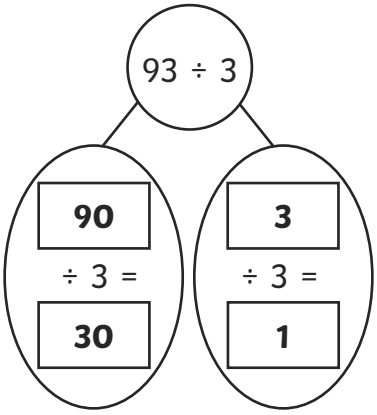
2) Draw the counters on the place value chart and complete the part-whole models to help you solve the divisions.

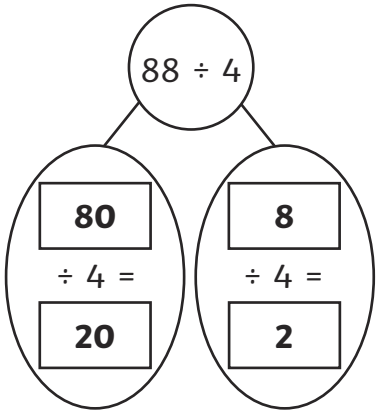
a) 93 ÷ 3 = **31**

Tens	Ones
10 10 10	1
10 10 10	1
10 10 10	1



a) 88 ÷ 4 = **22**

Tens	Ones
10 10	1 1
10 10	1 1
10 10	1 1
10 10	1 1



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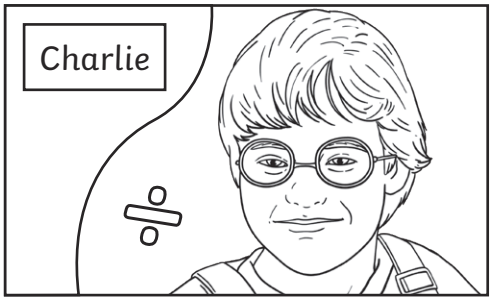
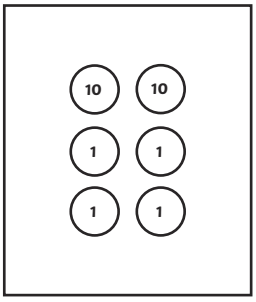
3) Charlie has used place value counters to help him calculate the answer to 24 ÷ 2. He says that the answer is 12. Is he correct? Use the place value chart to help you explain your answer.





Tens	Ones
10	1 1
10	1 1

Charlie is correct. The number 24 can be partitioned into 2 tens and 4 ones. 2 tens divided by 2 is 1 ten. 4 ones divided by 2 is 2 ones. 1 ten and 2 ones totals 12. 24 ÷ 2 = 12.

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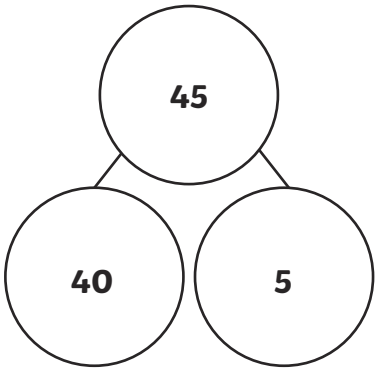
4) Mia is sharing her bag of gummy bears with her friends. She has 45 gummy bears and shares them equally with 4 of her friends. How many gummy bears does each child get?



40	÷	5	=	8
5	÷	5	=	1
8	+	1	=	9

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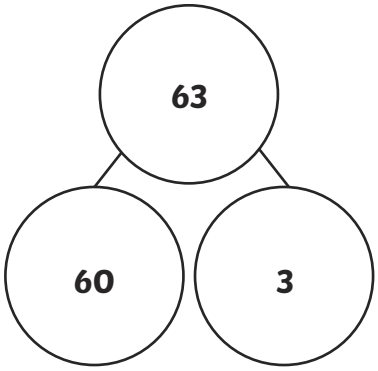
Answers

1) Draw the counters on to the place value charts and complete the part-whole models to solve the division calculations.

a) 63 ÷ 3 = **21**

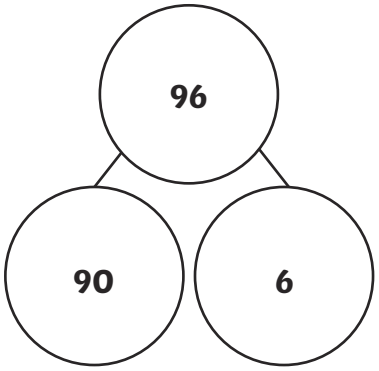
Tens	Ones
10 10	1
10 10	1
10 10	1



60	÷	**3**	=	**20**
3	÷	**3**	=	**1**
20	+	**1**	=	**21**

b) 96 ÷ 3 = **32**

Tens	Ones
10 10 10	1 1
10 10 10	1 1
10 10 10	1 1

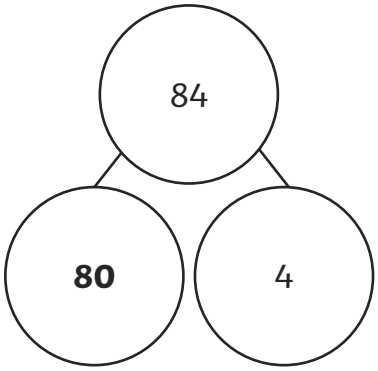


90	÷	**3**	=	**30**
6	÷	**3**	=	**2**
30	+	**2**	=	**32**

---

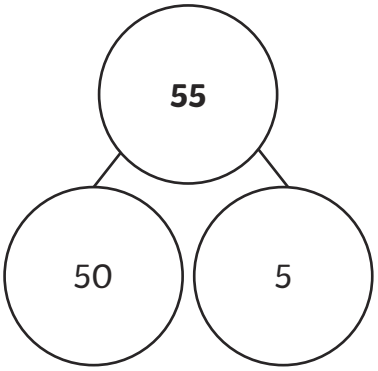
2) Complete the missing numbers in the following division calculations.

a)



80	÷	4	=	**20**
4	÷	4	=	**1**
20	+	**1**	=	**21**

b)



50	÷	**5**	=	10
5	÷	**5**	=	1
10	+	**1**	=	**11**

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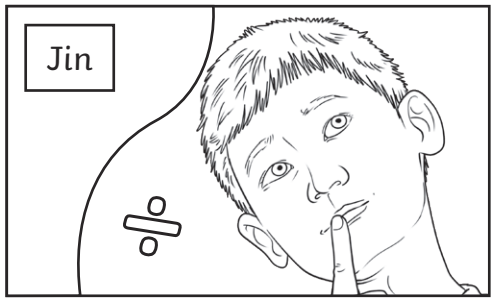
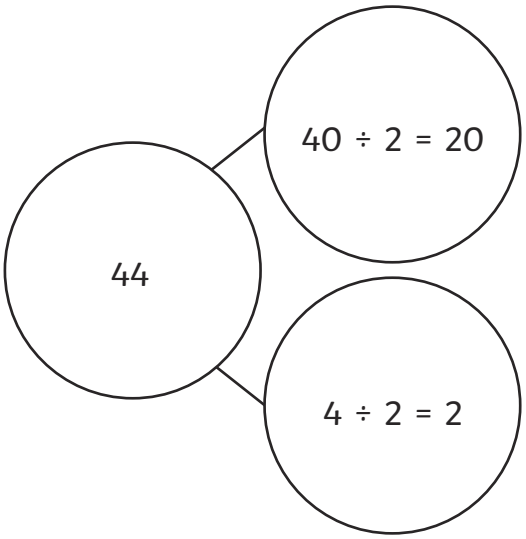
3) Jin has used a part-whole model to calculate 44 ÷ 4. He has used the partition method and believes that the answer is 22. Mia thinks that Jin is incorrect. Who is correct? Explain your answer.





Jin is incorrect. He has incorrectly divided his numbers by 2 not 4.
The correct answer is 11.

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4) Solve the following word problems.

a) 99 children are going to eat lunch in the school cafeteria. 9 children can fit around 1 table. How many tables need to be put out?

99 ÷ 9
90 ÷ 9 = 10
9 ÷ 9 = 1
10 + 1 = 11

11 tables need to be put out.

b) Mrs Wilson needs to read with 35 children in a school week. How many children does she need to listen to each day?

There are 5 days in a school week.

35 ÷ 5
30 ÷ 5 = 6
5 ÷ 5 = 1
6 + 1 = 7

7 readers each day.

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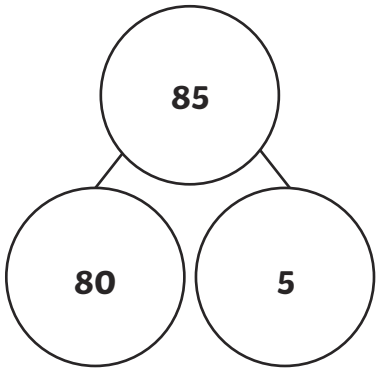
Answers

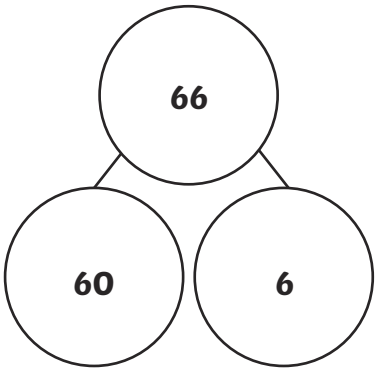
1) Use the part-whole models to calculate the following division calculations.

a) 85 ÷ 5



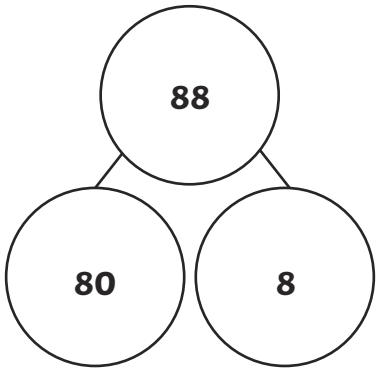
80	÷	5	=	16
5	÷	5	=	1
16	+	1	=	17

b) 66 ÷ 6



60	÷	6	=	10
6	÷	6	=	1
10	+	1	=	11

c) 88 ÷ 8



80	÷	8	=	10
8	÷	8	=	1
10	+	1	=	11

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2) Do you agree with Sara? Explain your reasoning.

Sara is incorrect. This is not always the case. 96 ÷ 3 = 32 and 68 ÷ 2 = 34. It often depends on the divisor (number being divided by). If there are lots of groups to share between, then the answer will be smaller.

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3) Compare the division calculations using <, > and =.

a) 24 ÷ 4 **<** 36 ÷ 3

b) 48 ÷ 4 **<** 42 ÷ 2

c) 36 ÷ 3 **=** 48 ÷ 4

d) 84 ÷ 4 **<** 99 ÷ 3

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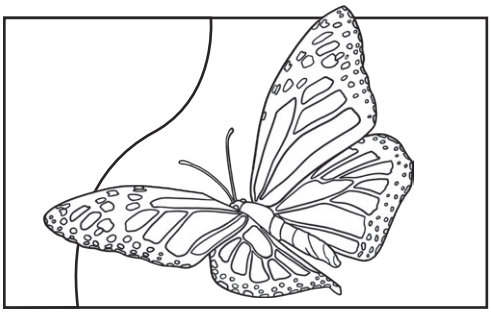
4) Butterflies have 4 wings. Use your knowledge of multiplication and partitioning to solve the divisions. Write your answers in the table.



Number of Legs	Number of Spiders
28	**5 + 2 = 7**
44	**10 + 1 = 11**
48	**10 + 2 = 12**
80	**20**
88	**20 + 2 = 22**

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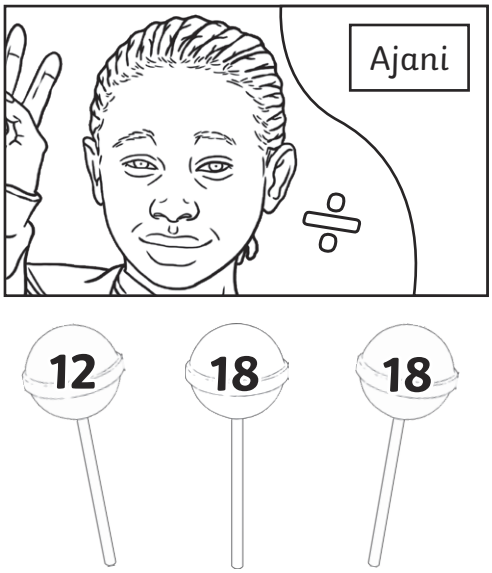
5) Ajani has 12 blackcurrant, 18 lime and 18 lemon lollipops. He divides them equally between 4 bowls. How many lollipops are in each bowl?



12 + 18 + 18 = 48
48 ÷ 4 = 12

There are 12 lollipops in each bowl.

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