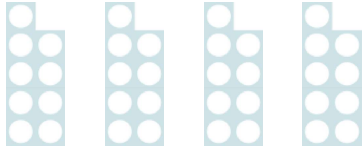
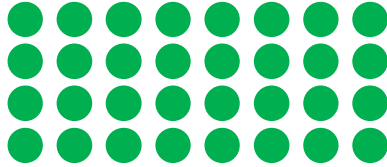


Multiply and Divide by 9

1a. Jen represents the calculation $4 \times 9 = 36$ below.



She represents the same calculation as an array.



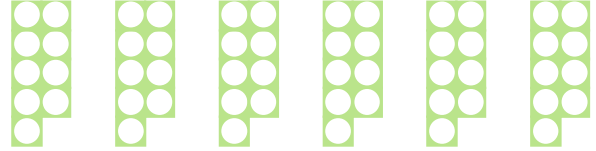
Find and correct her mistake.



PS

Multiply and Divide by 9

1b. Esa represents the calculation $6 \times 9 = 54$ below.



He represents 9×6 using different number pieces.



Find and correct his mistake.



PS

2a. Aryan is filling boxes with donuts. There are 9 donuts in each box and each box is full.

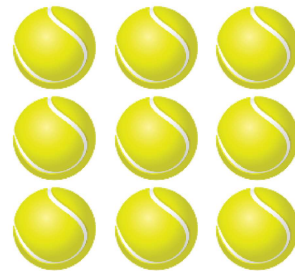


Aryan has between 85 and 110 donuts. How many boxes might he need?



R

2b. Danielle is sorting out the PE cupboard. She puts 9 tennis balls in each bag and each bag is full.



Danielle has between 6 and 10 bags. How many tennis balls might she have?



R

3a. Zaina and Mason are comparing how many crayons they each have. Crayons are kept in packs of 9.

Zaina says,



Mason has more crayons than me because he has 45 crayons in total. I have 5 packs.

Is she correct?
Prove it.

$$5 \times \square = \square$$



R

3b. Finlay is sharing out lollipops at his birthday party. There are 9 children in total.

Finlay says,



I have shared out 90 lollipops so we must have 9 lollipops each.

Is he correct?
Prove it.

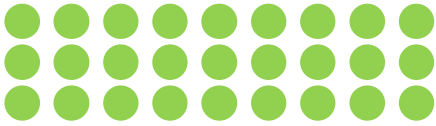
$$90 \div \square = \square$$



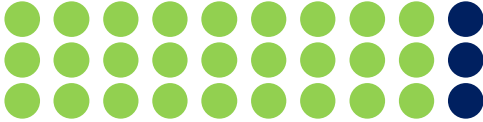
R

Multiply and Divide by 9

4a. Lois makes an array with counters to represent the calculation $3 \times 9 = 27$.



She adds extra counters to show how she would calculate 4×9 .



Find and correct her mistake.



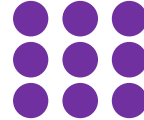
PS

Multiply and Divide by 9

4b. Liam makes an array with counters to represent the calculation $2 \times 9 = 18$.



He removes some counters to show how he would represent $1 \times 9 = 9$.



Find and correct his mistake.



PS

5a. Sue is filling boxes with buns. She can put 9 buns in each box and each box is full.



Sue has between 50 and 75 buns. How many boxes might she need?



R

5b. Josh is packing crates with bottles of pop. He can put 9 bottles in each crate and each crate is full.



Josh has used between 9 and 12 crates. How many bottles might he have packed?



R

6a. Lexi and Dylan are comparing how many stickers they each have. Stickers are kept in packs of 9.

Lexi says,



Dylan has more stickers than me because he has 63 stickers in total. I have 6 packs.

$$6 \times \square = \square$$

Is she correct?
Prove it.



R

6b. Harry and Maisie are sharing out some strawberries for their class. There are 9 strawberries in each bowl.

Harry says,



I have shared out more strawberries than Maisie because she has only prepared 3 bowls. I have shared 36 strawberries.

$$36 \div \square = \square$$

Is he correct?
Prove it.



R

Multiply and Divide by 9

7a. Hassan says,



If I add the answers together for 6×9 and 3×9 , I get the same answer as 10×9 .

Find and correct his mistake.



PS

Multiply and Divide by 9

7b. Lily says,



If I subtract the answer to 4×9 from the answer to 12×9 , I get the answer to 7×9 .

Find and correct her mistake.



PS

8a. Connor is helping to store bikes in the bike park. He can put 9 bikes into each rack. Each rack he has used is full.



Connor has filled more than 4 racks but fewer than 9 racks.
How many bikes might he have stored?



R

8b. Emily is putting biscuits in jars. She can put 9 biscuits in each jar and each jar is full.



Emily has more than 70 biscuits but fewer than 100 biscuits. How many full jars might she have?



R

9a. Sophie and Armin are comparing how many sweets they each have. Sweets are kept in bags of 9.

Sophie says,



I have more sweets than Armin because I have 5 bags plus 18 sweets. Armin has 7 bags of sweets.

Is she correct?
Prove it.



R

9b. Jim and Kat are sharing game cards with their friends at their after-school club. There are 9 game cards in each pack.

Jim says,



I have given more game cards to my friends than Kat because I have given out 7 packs. Kat has given out 54 game cards.

Is he correct?
Prove it.



R