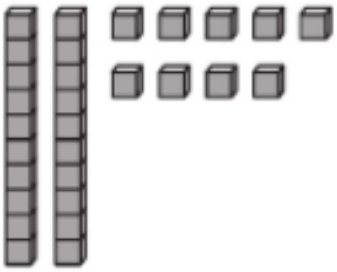
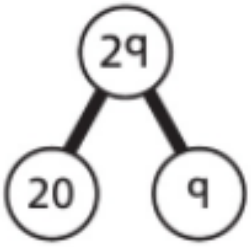
Division with remainders

1 Use base 10 equipment to help you work out these divisions.

a) 29 ÷ 2



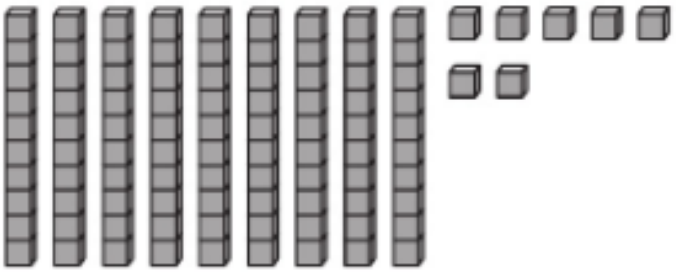


□ ÷ 2 = □

□ ÷ 2 = □ remainder □

29 ÷ 2 = □ remainder □

b) 97 ÷ 3



□ ÷ 3 = □

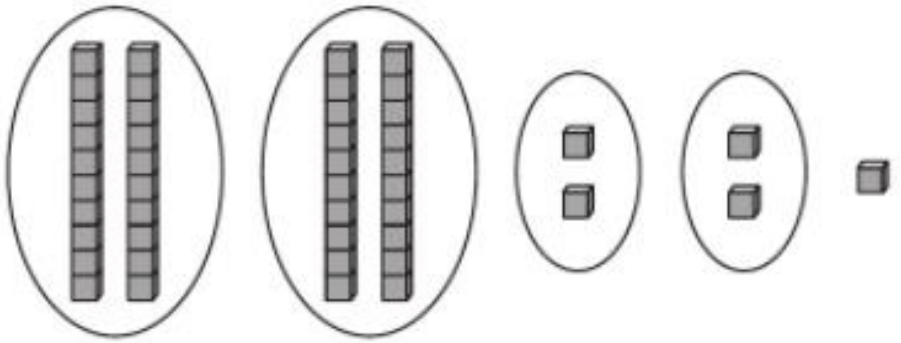
□ ÷ 3 = □ remainder □

97 ÷ 3 = □ remainder □

2 What calculation is shown in the picture?

The number in the picture has ☐ tens and ☐ ones.

The picture shows ☐ ÷ ☐ = ☐ remainder ☐



3 Find the answers to the following calculations.

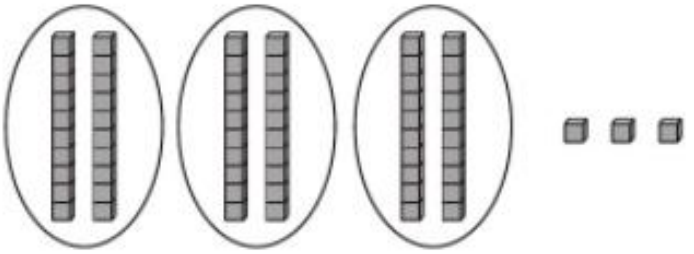
a) 41 ÷ 4 = ☐ r ☐

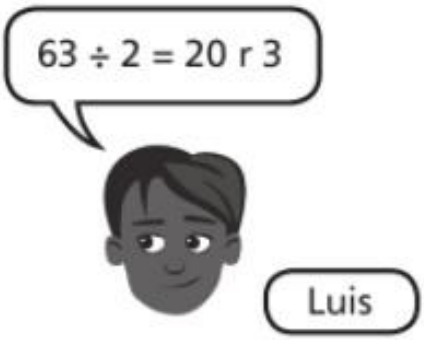
c) 62 ÷ 3 = ☐ r ☐

b) 59 ÷ 5 = ☐ r ☐

d) 89 ÷ 4 = ☐ r ☐

4 Luis is working out the answer to 63 ÷ 2.





Is Luis correct? Explain why or why not.

_____

_____

5 Using the digit cards 0 to 9, how many division calculations can you make where the answer will have a remainder of 1?

CHALLENGE

☐☐ ÷ ☐ = ☐ remainder 1

Reflect

Why is there a remainder when you divide 87 by 4? Use pictures to support your answer.