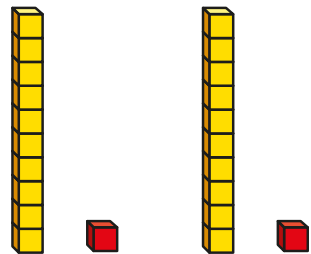


11 times-table and division facts

- 1 The base 10 represents 2×11



$$2 \times 11 = 22$$

Use base 10 to work out 3×11

Draw your base 10 and complete the multiplication.

$$3 \times 11 = \boxed{}$$

- 2 Complete the calculations.

a) $5 \times 11 = \boxed{}$

e) $7 \times 11 = \boxed{}$

b) $9 \times 11 = \boxed{}$

f) $4 \times 11 = \boxed{}$

c) $6 \times 11 = \boxed{}$

g) $3 \times 11 = \boxed{}$

d) $10 \times 11 = \boxed{}$

h) $12 \times 11 = \boxed{}$

- 3 Rosie is spotting patterns in the 11 times-table.

When I add together the digits of each multiple of 11, I always get an even number.



$$2 \times 11 = 22$$

$$2 + 2 = 4, \text{ which is an even number}$$

- a) Do you agree with Rosie? _____

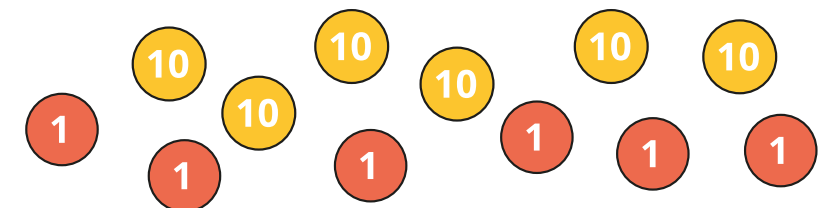
Explain your answer.

- b) What else do you notice?

What other patterns can you see in the 11 times-table?

Talk about it with a partner.

- 4 a) The place value counters represent 66



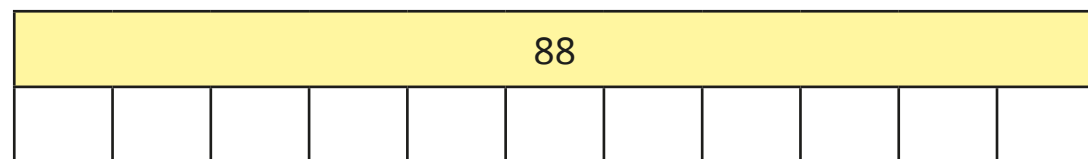
Circle groups of 11 to help complete the division.

$$66 \div 11 = \boxed{}$$

- b) Use place value counters to help complete the division.

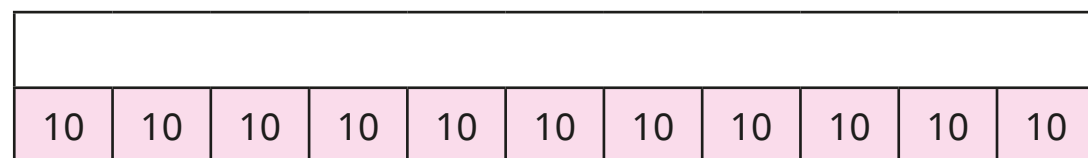
$$44 \div 11 = \boxed{}$$

- 5 a) Complete the bar models and number sentences.



$$88 \div 11 = \square$$

$$11 \times \square = 88$$



$$11 \times 10 = \square$$

$$\square \div 11 = 10$$

- b) Draw a bar model to represent 7×11
Write the related division fact.

- 6 Filip runs 3 km every day for 11 days.
Dani runs 11 km every day for a week.
How much further does Dani run?

km

Compare methods with a partner.

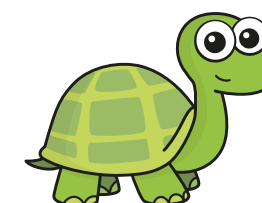
- 7 Mr Scott is organising a cricket tournament.

- a) There are 11 players in a cricket team.
5 teams have signed up for the tournament.
How many players have signed up?

- b) Mr Scott needs 132 players signed up to go ahead with the tournament.
How many more teams are needed?

more teams are needed.

- 8 Think of a 2-digit number.
Reverse the digits to create a new 2-digit number.
Find the sum of the two numbers.
Tiny has done an example.



$24 + 42 = 66$

- Repeat with other 2-digit numbers.
What do you notice?
Why does this happen?
Use base 10 to help you explain.