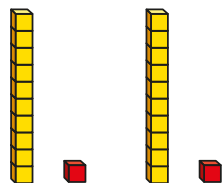


1 The base 10 represents 2×11



$$2 \times 11 = 22$$

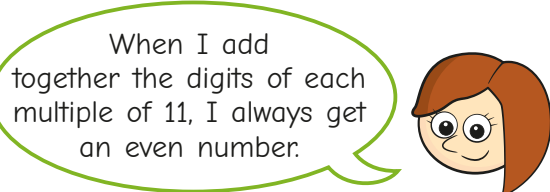
Use base 10 to work out 3×11

Draw your base 10 and complete the multiplication.

2 Work out the calculations.

- | | | |
|------------------|-------------------|-------------------|
| a) 5×11 | d) 10×11 | g) 3×11 |
| b) 9×11 | e) 7×11 | h) 12×11 |
| c) 6×11 | f) 4×11 | |

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

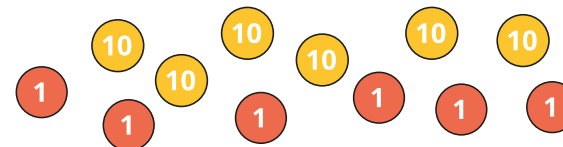


$2 \times 11 = 22$
 $2 + 2 = 4$, which is an even number

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

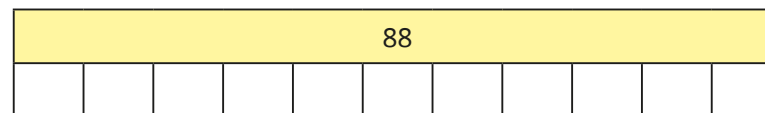


Make groups of 11 to work out $66 \div 11$

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

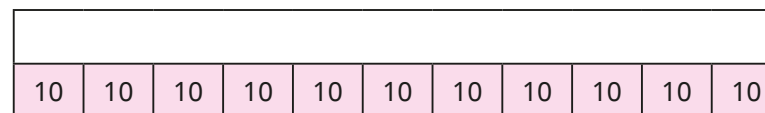
$$44 \div 11 = \square$$

5 a) Complete the bar models and number sentences.



$$88 \div 11 = \square$$

$$11 \times \square = 88$$

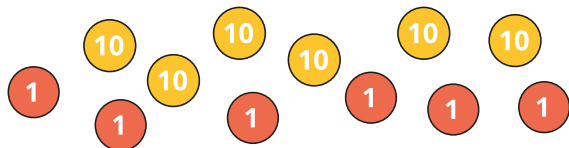


$$11 \times 10 = \square$$

$$\square \div 11 = 10$$

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

- 4 a) The place value counters represent 66

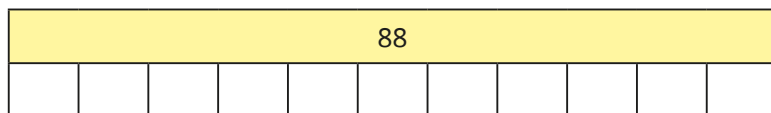


Make groups of 11 to work out $66 \div 11$

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

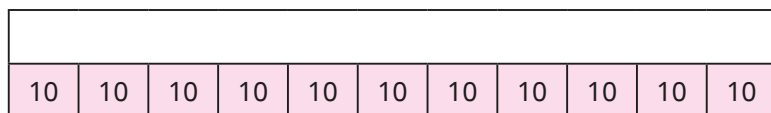
$$44 \div 11 = \square$$

- 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?
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?

- 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.

