The base 10 represents $2 \times 11$


$$
2 \times 11=22
$$

Use base 10 to work out $3 \times 11$
Draw your base 10 and complete the multiplication.

2) Complete the calculations.

$9 \times 11=\square$
$4 \times 11=$ $\square$
$6 \times 11=$ $\square$
$3 \times 11=\square$
$10 \times 11=$ $\square$
$12 \times 11=$ $\square$
(3) Rosie is spotting patterns in the 11 times-table.

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) Crayons come in packs of 12

Dora buys 5 packs of crayons.


How many crayons does she have?
(5) Ron uses a bar model to represent 84 divided by 12

| 84 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

a) Explain Ron's mistake.
b) Draw the correct bar model diagram to represent 84 divided by 12

Amir is making pictures using shapes.
Here is one picture.


## 11 and 12 times-table

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) Crayons come in packs of 12

Dora buys 5 packs of crayons.


How many crayons does she have?
(5) Ron uses a bar model to represent 84 divided by 12

| 84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |  |  |  |  |  |  |  |

a) Explain Ron's mistake.
b) Draw the correct bar model diagram to represent 84 divided by 12

Amir is making pictures using shapes.
Here is one picture.


Amir makes 12 pictures like this one.
a) How many shapes does he use altogether? Show your working.
b) If each picture is exactly the same, how many of each shape does Amir use?

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) Dexter has been looking at the 12 times-table.

He notices something when he adds the digits of the multiples of 12 together.

a) Dexter thinks the next number in the pattern will be 15 Is he correct?
Explain your answer.
b) What happens when he tries this for all the multiples of 12 up to $12 \times 12$ ?

Is there a pattern?

