Add by making 10 ★ ★ ★

Jess has used a part-whole model to represent $5 + 8$.
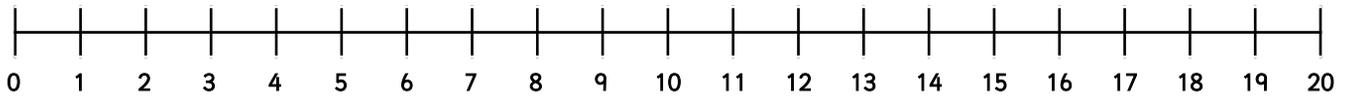
```
        12
       /  \
      5    8
```

Is Jess correct?
Explain how you know.

Dom says number line below represents $6 + 5$.

$$+ 5$$

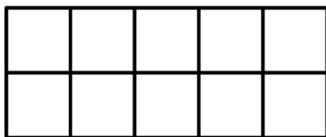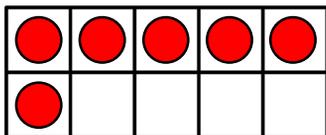0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Is Dom correct? If not, how could he correct it?

How many different addition number sentences can you make that give the answer **13**?
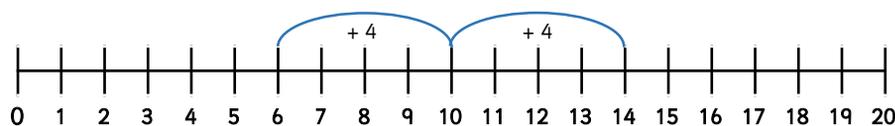Use the number line to help you.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

☐ + ☐ = 13

Draw yellow counters on the ten frame to give a total more than 10 but less than 14.
Then complete the numbers sentences to show adding by making 10.

6 + ☐ = ☐ so ☐ + ☐ = ☐

Explain how you know if the number line shows $8 + 6$.

$$+ 4 \qquad + 4$$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Represent this as number sentences to show adding by making 10.

8 + ☐ = ☐ so ☐ + ☐ = ☐

How many different ways can be part-whole model be completed?

```
       11
      /  \
     ?    ?
```

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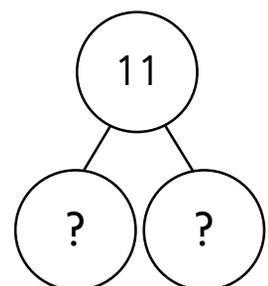
Add by making 10 ★ ★ ★

Jess has used a part-whole model to represent 5 + 8.

```
    12
   /  \
  5    8
```
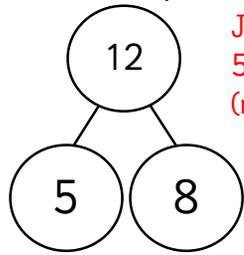
Jess is not correct.
5 + 8 = 13
(not 12).

Is Jess correct?
Explain how you know.

Dom says number line below represents 6 + 5.

+ 5 (arc)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
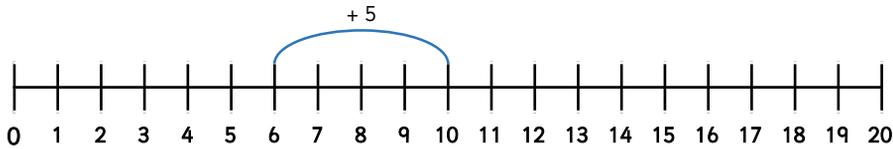
Is Dom correct? If not, how could he correct it?
No. The number line shows 6 + 4 (which equals 10). 6 + 5 = 11.
Dom needs to add one more jump to reach 11.

How many different addition number sentences can you make that give the answer **13**?
Use the number line to help you.

0 + 13, 1 + 12, 2 + 11, 3 + 10, 4 + 9, 5 + 8, 6 + 7
13 + 0, 12 + 2, 11 + 2, 10 + 3, 9 + 4, 8 + 5, 7+ 6.
14 combinations.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

☐ + ☐ = 13

Draw yellow counters on the ten frame to give a total more than 10 but less than 14.
Then complete the numbers sentences to show adding by making 10.

Either 5, 6 or 7 counters drawn with corresponding number sentences.

(ten frames with red counters)

6 + ☐ = ☐ so ☐ + ☐ = ☐
(with part-whole ☐ ☐ below)

Explain how you know if the number line shows 8 + 6.

+ 4 **+ 4** (arcs)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

The jumps on the number line show 6 + 8. It should show 8 + 6.
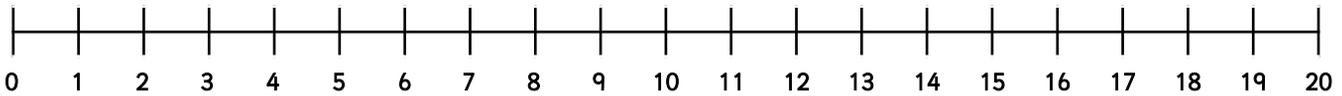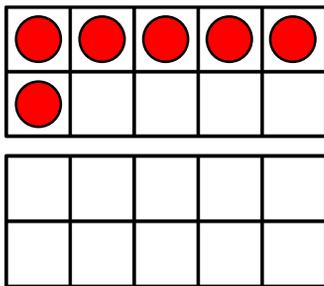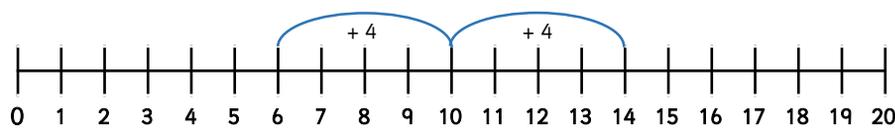Represent this as number sentences to show adding by making 10.

8 + 6 = 14 so 10 + 4 = 14
(part-whole: 2 4)

How many different ways can be part-whole model be completed?

0 + 11, 11 + 0
10 + 1, 1 + 10
9 + 2, 2 + 9
8 + 3, 3 + 8
7 + 4, 4 + 7
6 + 5, 5 + 6

12 combinations.

```
    11
   /  \
  ?    ?
```

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