White Rose Maths

1 Complete the sentences.

a)

There are 3 equal groups with 6 in each group.

$6 + 6 + 6 = 18$

$3 × 6 = 18$

b)
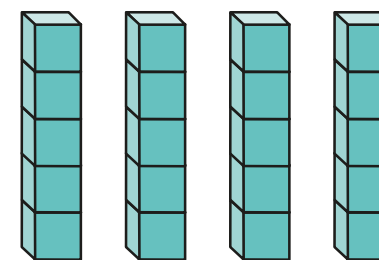
There are 4 equal groups with 5 in each group.

$5 + 5 + 5 + 5 = 20$

$4 × 5 = 20$

c)

There are 2 equal groups with 4 in each group.

$4 + 4 = 8$

$2 × 4 = 8$

2 Complete the table.

The first one has been done for you.

Addition	Multiplication
2 + 2 + 2 + 2	4 × 2
5 + 5 + 5	3 × 5
3 + 3 + 3 + 3 + 3	5 × 3
10 + 10	2 × 10

3 Complete the pattern.

5 × 2 = 5 + 5 = 10

5 × 3 = 5 + 5 + 5 = 15

5 × 4 = 5 + 5 + 5 + 5 = 20

5 × 5 = 5 + 5 + 5 + 5 + 5 = 25

What comes next?

4 The total is 16

What could the addition and multiplication be?

various answers e.g 2 × 8 = 16

8 + 8 = 16

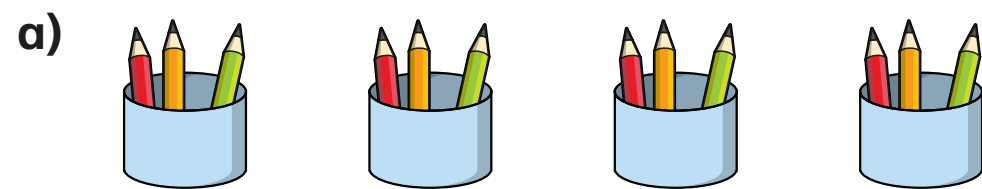**5** Use counters to help you complete the number sentences.

a) 3 × 4 = 12

b) 2 × 4 = 8

c) 2 × 5 = 10

Multiplication sentences from pictures

1 Complete the sentences to match the picture.

a)

| 4 | lots of 3 = | 12 |

| 4 | multiplied by 3 = | 12 |

| 4 | × 3 = | 12 |

b)
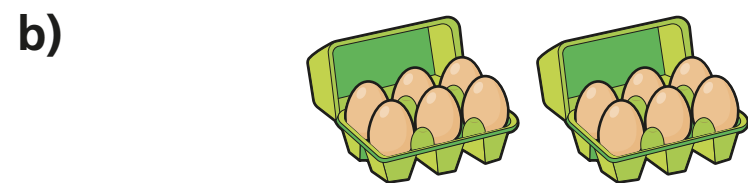
| 2 | lots of 6 = | 12 |

| 2 | multiplied by 6 = | 12 |

| 2 | × 6 = | 12 |

c)
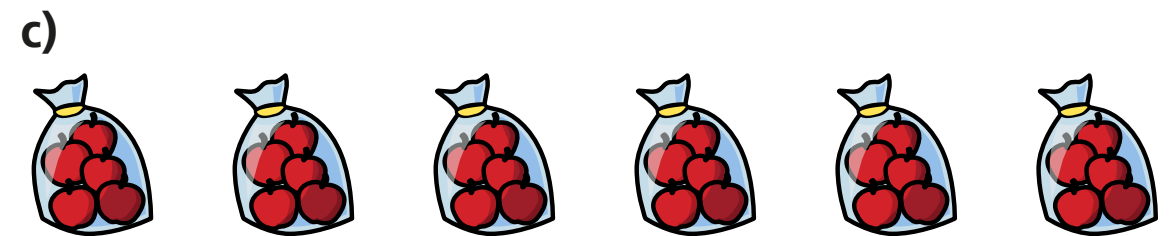
| 6 | lots of | 5 | = | 30 |

| 6 | multiplied by | 5 | = | 30 |

| 6 | × | 5 | = | 30 |

d)

| 9 | lots of | 1 | = | 9 |

| 9 | multiplied by | 1 | = | 9 |

| 9 | × | 1 | = | 9 |

2 Draw a picture for each sentence.

a) 4 lots of 5
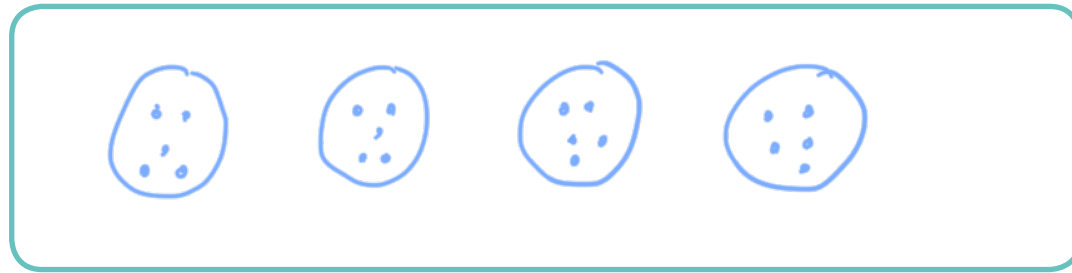
Various answers.

b) 2 multiplied by 4

c) 3 × 5
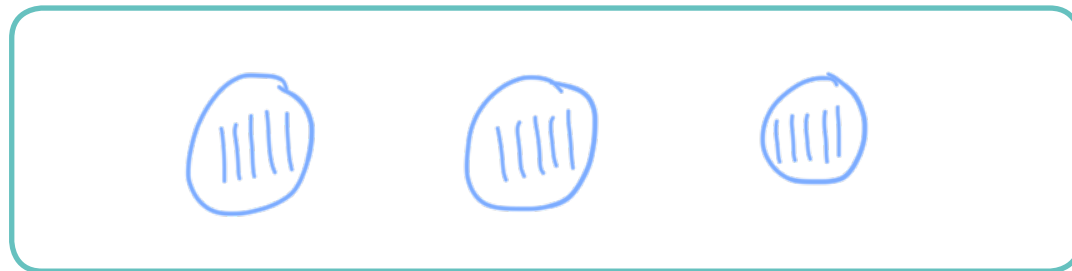
3 Complete the sentences for each picture.

a)

| 2 | lots of | 5 | = | 10 |

| 2 | × | 5 | = | 10 |

b)
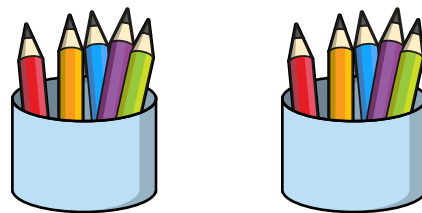
| 5 | lots of | 2 | = | 10 |

| 5 | × | 2 | = | 10 |

What is the same about the number sentences?

What is different?

4 a) The answer is 12

What could the multiplication be?

Various answers.

Compare answers with a partner.
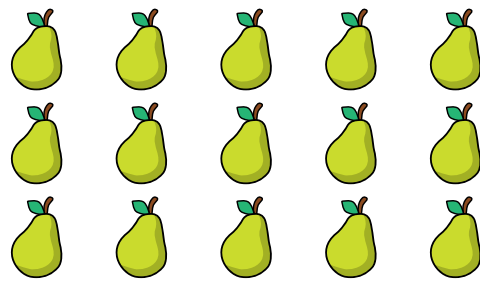
b) Now the answer is 15

What could the multiplication be?

Various answers.

Can you write more or fewer multiplications for 15?

1 How many pears are there?

$$5 + 5 + 5 = 15$$

$$3 × 5 = 15$$

There are 15 pears.

2 How many stars are there?

$$6 + 6 = 12$$

$$2 × 6 = 12$$

There are 12 stars.

3 Write two additions and two multiplications for the array.
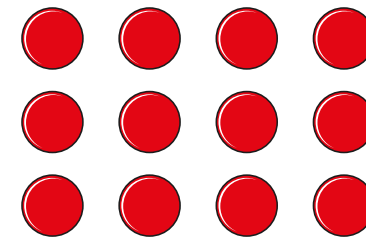
$$4 + 4 + 4 = 12$$

$$3 × 4 = 12$$

$$3 + 3 + 3 + 3 = 12$$

$$4 × 3 = 12$$

What do you notice?

4 Write two multiplications for this array.
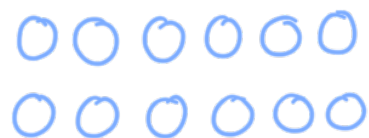

$$2 × 9 = 18$$

$$9 × 2 = 18$$

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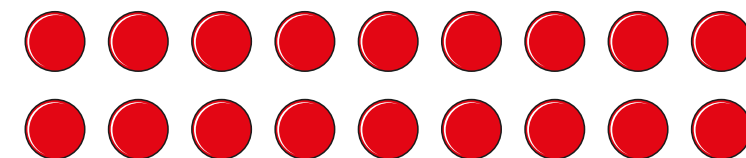
5 Draw an array to show 7 × 3

Complete the number sentence.

7 × 3 = 21

Is there more than one way to draw the array?
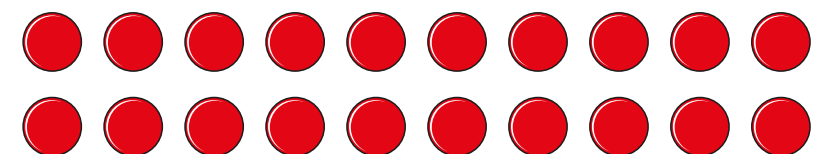
6 Draw three different arrays to show 12

7 Draw dots to show each multiplication in two ways.

The first one has been done for you.

Multiplication	Array 1	Array 2
3 × 8		
2 × 5		
4 × 9		
6 × 1		

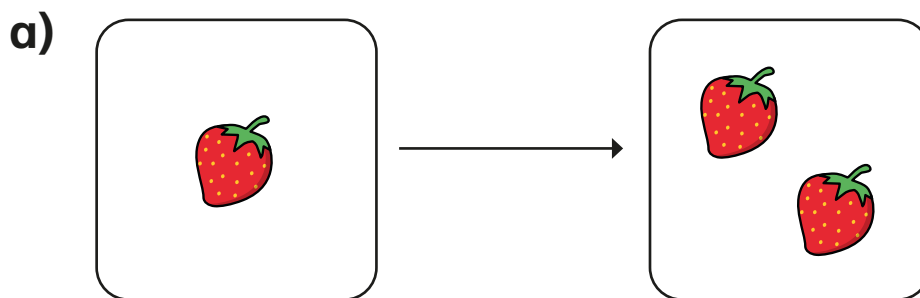**8** Can you see the multiplications 5 × 4 and 4 × 5 in the array?

Talk about it with a partner.

Make doubles

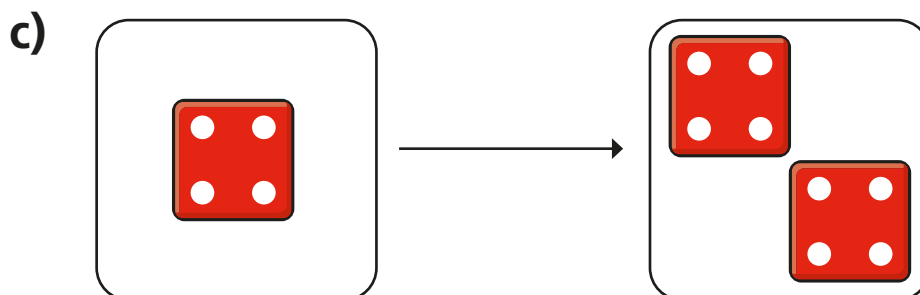**1** Complete the sentences.

Use the pictures to help you.

a)

Double 1 is | 2 |

b)

Double 2 is | 4 |

c)
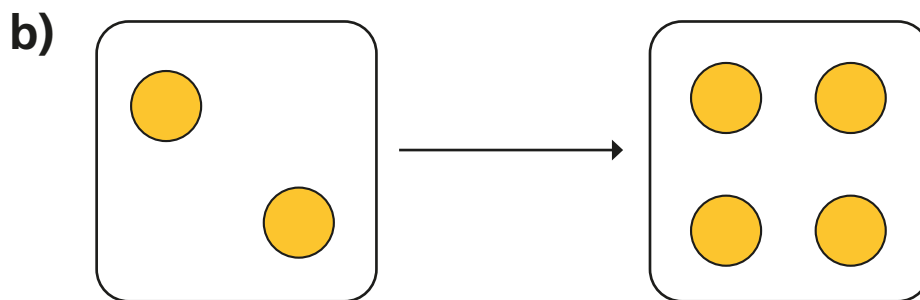
Double | 4 | is | 8 |

d)
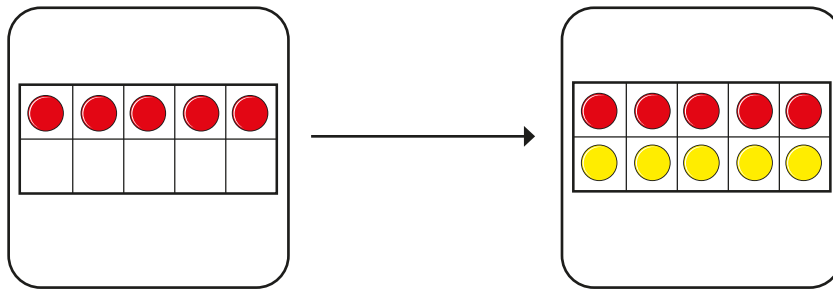
Double $\boxed{5}$ is $\boxed{10}$

2 Match the doubles to the additions.

Double 3	6 + 6
Double 6	7 + 7
Double 10	3 + 3
Double 7	10 + 10
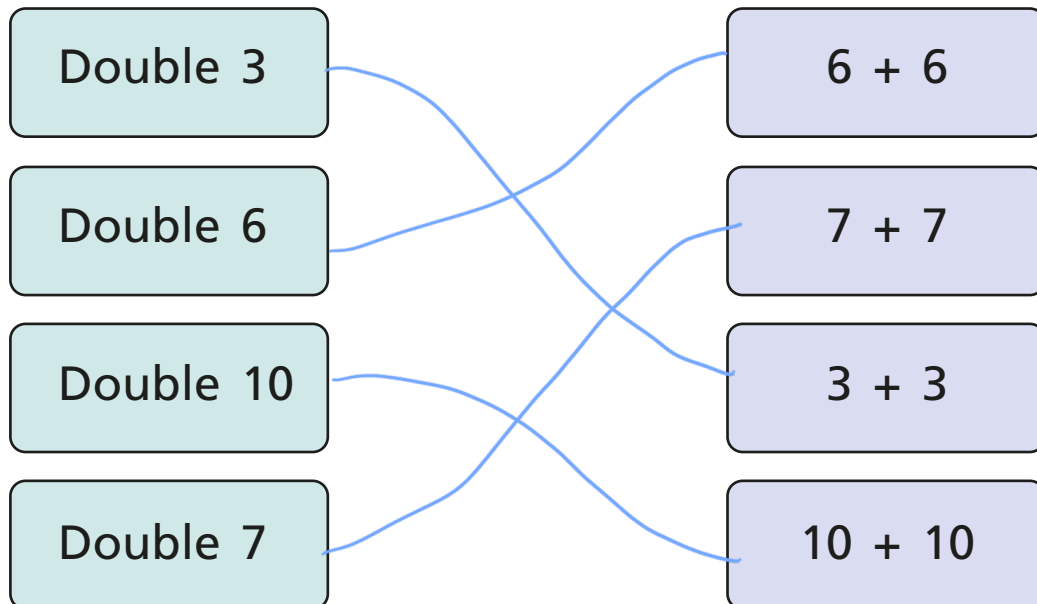
3 Fill in the gaps.

a) Double 15 is $\boxed{30}$

b) Double 11 is $\boxed{22}$

c) Double 12 is $\boxed{24}$

d) Double 20 is $\boxed{40}$

e) Double $\boxed{4}$ is 8

f) Double $\boxed{8}$ is 16

4
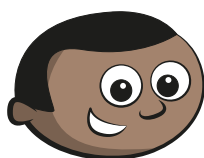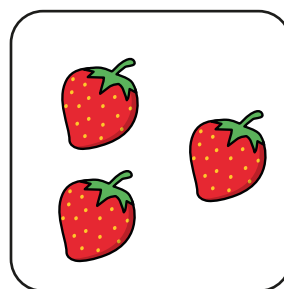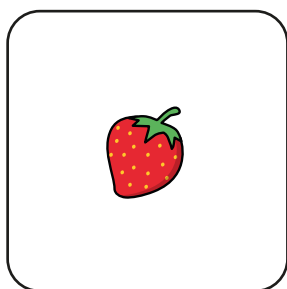
I have doubled the number of strawberries.

Do you agree with Mo? ___No___

Talk about it with a partner.