Use arrays

1 How many pears are there?

☐ + ☐ + ☐ = ☐

☐ × ☐ = ☐

There are ☐ pears.

2 How many stars are there?

☐ + ☐ = ☐

☐ × ☐ = ☐

There are ☐ stars.

3 Write two additions and two multiplications for the array.

☐ + ☐ + ☐ = ☐

☐ × ☐ = ☐

☐ + ☐ + ☐ + ☐ = ☐

☐ × ☐ = ☐
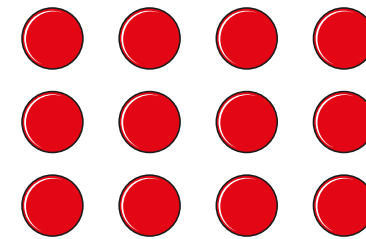
What do you notice?

4 Write two multiplications for this array.

☐ × ☐ = ☐

☐ × ☐ = ☐
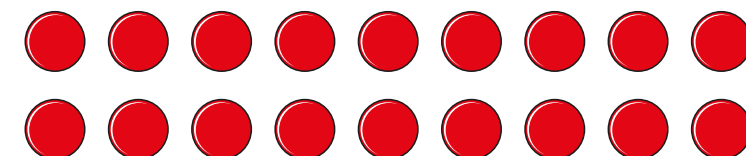
5 Draw an array to show 7 × 3

Complete the number sentence.

7 × 3 = ☐

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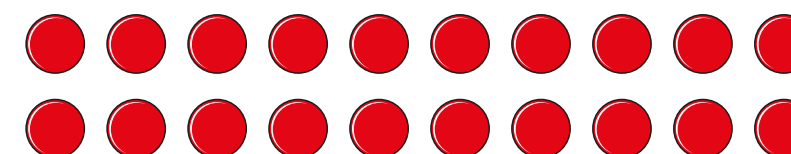
6 Draw three different arrays to show 12

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?
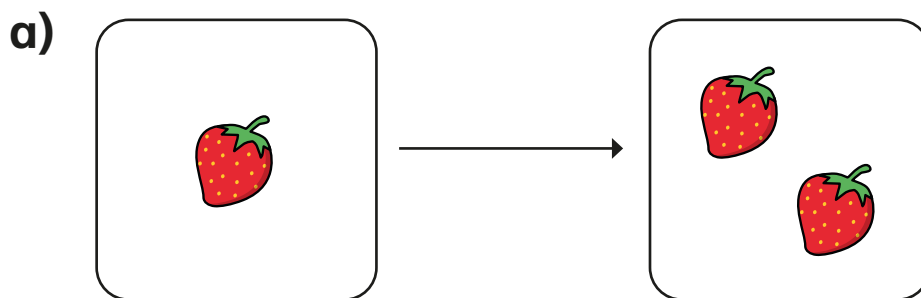
Talk about it with a partner.

1) Complete the sentences.

Use the pictures to help you.

a)

Double 1 is ⬚

b)

Double 2 is ⬚

c)
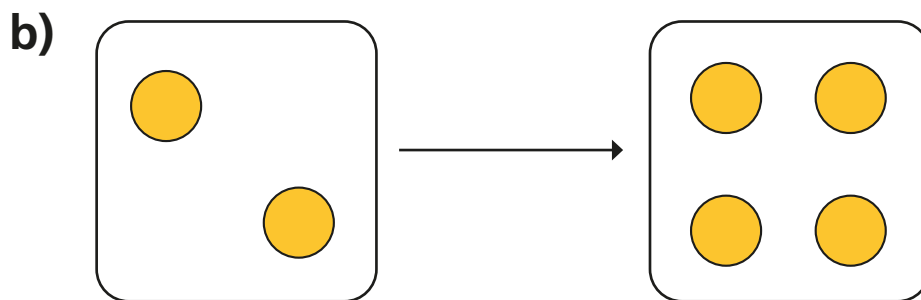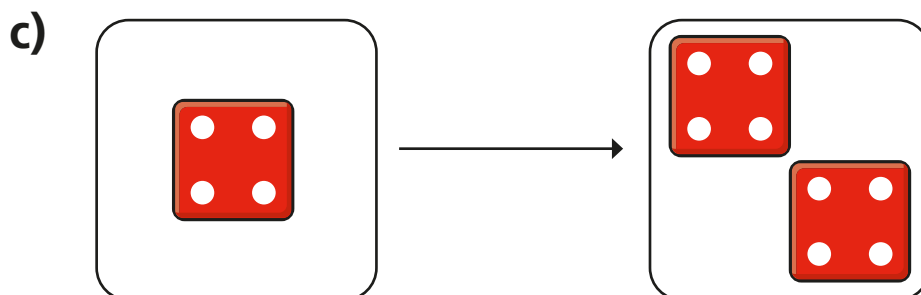
Double ⬚ is ⬚

d)
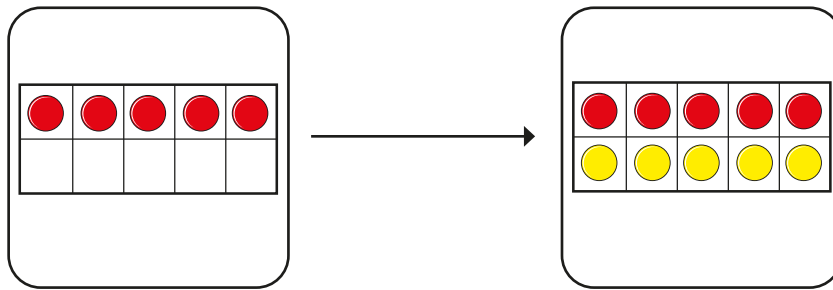
Double ⬜ is ⬜

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 ⬜
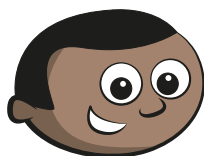
b) Double 11 is ⬜

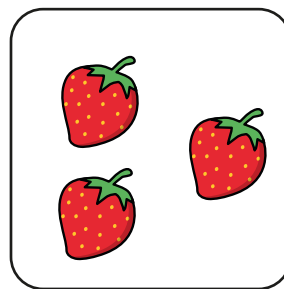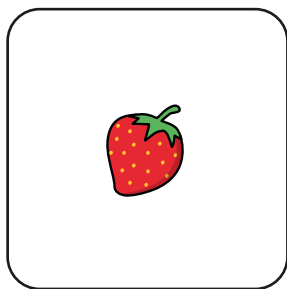**c)** Double 12 is ☐

d) Double 20 is ☐

e) Double ☐ is 8

f) Double ☐ is 16

④

I have doubled the number of strawberries.

Do you agree with Mo?_____

Talk about it with a partner.

The 2 times-table

1 Write a fact from the 2 times-table to match the picture.

a)

☐ × ☐ = ☐

b)

☐ × ☐ = ☐

c)
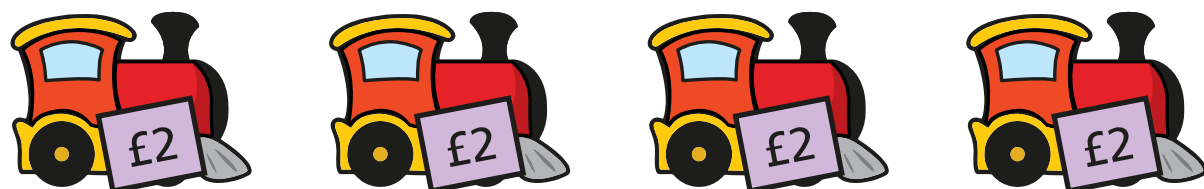
☐ × ☐ = ☐

2 a) Complete the number line.
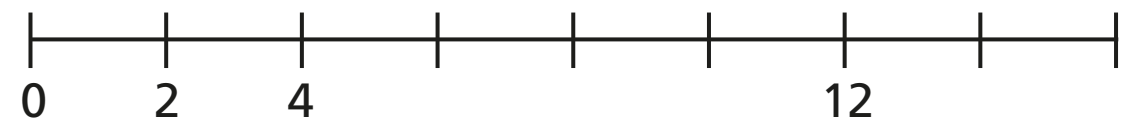
0   2   4   12

b) Which times-table does the number line show?

Tick your answer.

    1 times-table   2 times-table

           3 times-table

How do you know?

3 Complete the array and times-table fact so that they match.

a)

2 × 2 = ☐

b)

2 × 5 = ☐

c)
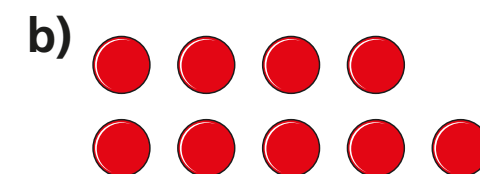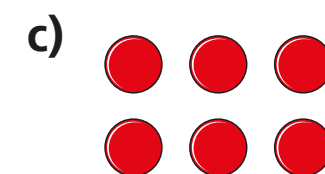
2 × ☐ = 8

4 Complete the number sentences.

a) 3 × 2 = ☐

f) ☐ = 12 × 2

b) ☐ = 9 × 2

g) 2 × ☐ = 2

c) 2 × 5 = ☐

h) 2 × 0 = ☐

d) 2 × ☐ = 4

i) 14 = 2 × ☐

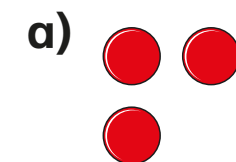**e)** 12 = ☐ × 2

j) ☐ × 2 = 22

5 Teddy has £8

Rosie has twice as much money as Teddy.

How much money does Rosie have?

Rosie has £ ☐

6 Eva is writing 10 × 2 in different ways.

I can write
10 × 2 as 3 × 2 + 7 × 2
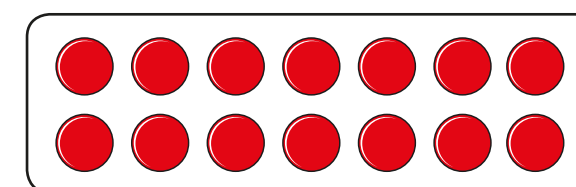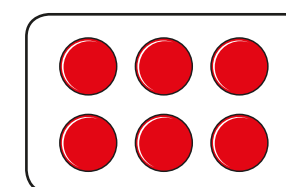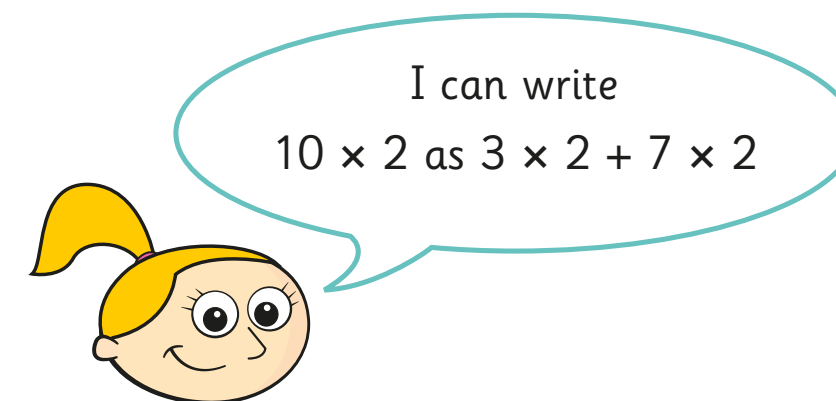
Find three more ways that you can write
10 × 2

Use counters to help you.

☐ × ☐ + ☐ × ☐

☐ × ☐ + ☐ × ☐

☐ × ☐ + ☐ × ☐

Compare answers with a partner.

The 5 times-table

1 **a)** Match the picture to the times-table fact.

3 × 5

2 × 5

1 × 5

5 × 5
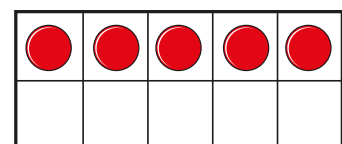
b) Draw a picture to show 4 × 5

2 **a)** Complete the number line.
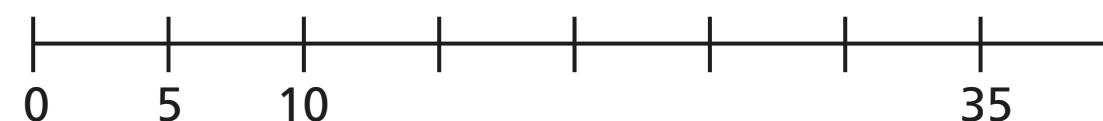
0   5   10   35

b) Which times-table does the number line show?
Tick your answer.

1 times-table   2 times-table

5 times-table

How do you know?

3 Complete the number sentences.

a) $5 \times 5 = $ ▢

f) ▢ $= 11 \times 5$

b) ▢ $= 9 \times 5$

g) $5 \times$ ▢ $= 5$

c) $5 \times 6 = $ ▢

h) $5 \times 0 = $ ▢

d) $5 \times$ ▢ $= 40$

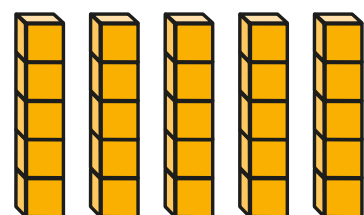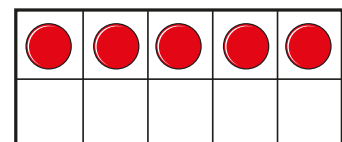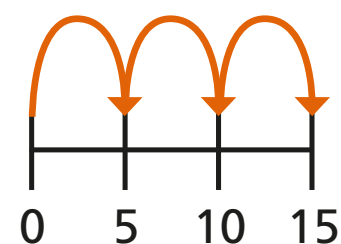i) $10 = 5 \times$ ▢

e) $35 = $ ▢ $\times 5$

j) ▢ $\times 5 = 60$

4 How much money does Ron have?

Complete the multiplication.

▢ $\times$ ▢ $=$ ▢

Ron has ▢ p.

5 Write <, > or = to compare the calculations.

7×5 ◯ 5×8

6×5 ◯ $4 \times 5 + 2 \times 5$

2×5 ◯ $3 \times 5 - 1 \times 5$

12×2 ◯ 2×12

6 A sandwich costs £2 and a box of crayons costs £5

£2 £5

Jack buys 5 sandwiches and 3 boxes of crayons.

How much does he spend in total?

Jack spends £ ▢

The 10 times-table

1 How many cookies are there?

10 | 10 | 10 | 10 | 10 | 10

[ ] × 10 = [ ]

There are [ ] cookies.

2 Complete the multiplication fact to match the bar model.

a)

40

| 10 | 10 | 10 | 10 |

[ ] × [ ] = [ ]

b)

| 10 | 10 | 10 | 10 | 10 | 10 | 10 |

[ ] × [ ] = [ ]

c)

100

[ ] × [ ] = [ ]
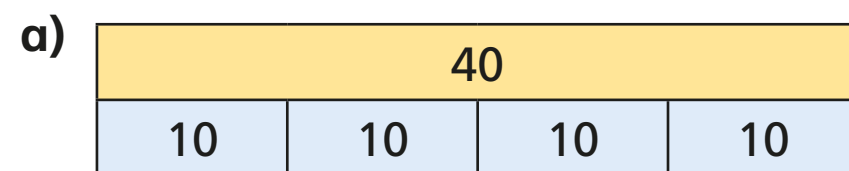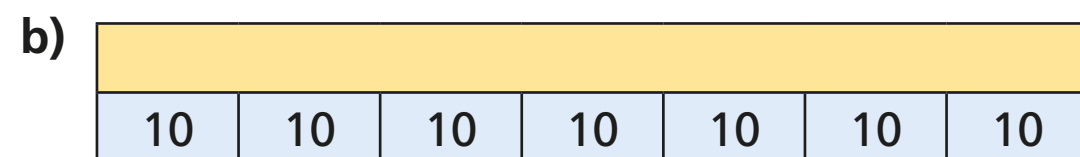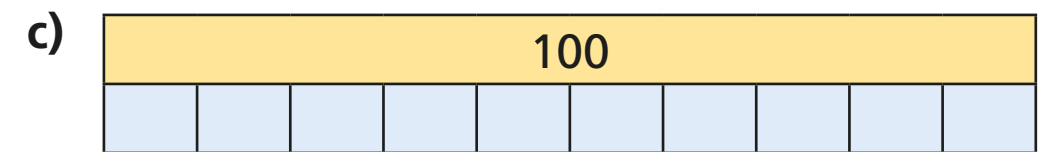
3 Draw a bar model to represent 5 × 10

4 **a)** Complete the number line.
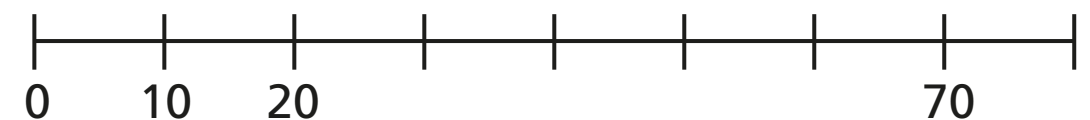
```
0   10   20                          70
```

b) Which times-table does the number line show?

Tick your answer.

10 times-table   5 times-table   1 times-table

How do you know?

5 Complete the number sentences.

a) $2 \times 10 = \boxed{}$ **f)** $\boxed{} = 10 \times 10$

b) $\boxed{} = 7 \times 10$ **g)** $10 \times \boxed{} = 10$

c) $10 \times 4 = \boxed{}$ **h)** $10 \times 0 = \boxed{}$

d) $10 \times \boxed{} = 110$ **i)** $30 = 10 \times \boxed{}$

e) $80 = \boxed{} \times 10$ **j)** $\boxed{} \times 10 = 90$

6 Eva is 7 years old.

Her gran is 10 times older.

How old is Eva's gran?

Eva's gran is $\boxed{}$ years old.

7 Four children each have some money.
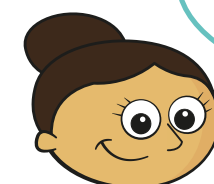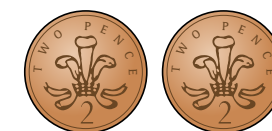
Teddy has this money.

I have twice as much money as Teddy.

Dora

I have five times as much money as Teddy.

Jack

I have ten times as much money as Dora.

Rosie

How much money do they each have?

Teddy has $\boxed{}$ p   Dora has $\boxed{}$ p

Jack has $\boxed{}$ p   Rosie has $\boxed{}$ p

Use arrays

1 How many pears are there?

$$\boxed{5} + \boxed{5} + \boxed{5} = \boxed{15}$$

$$\boxed{3} \times \boxed{5} = \boxed{15}$$

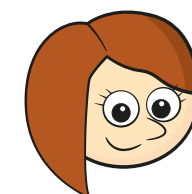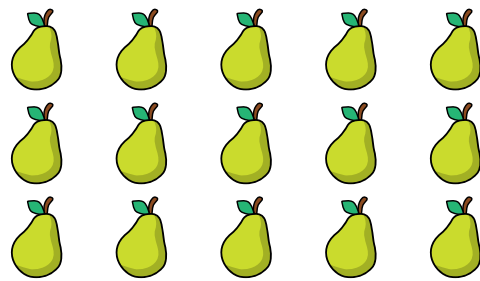There are $\boxed{15}$ pears.

2 How many stars are there?

$$\boxed{6} + \boxed{6} = \boxed{12}$$

$$\boxed{2} \times \boxed{6} = \boxed{12}$$

There are $\boxed{12}$ stars.

3 Write two additions and two multiplications for the array.
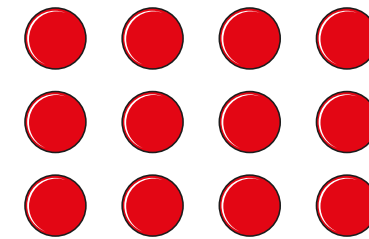
$$\boxed{4} + \boxed{4} + \boxed{4} = \boxed{12}$$

$$\boxed{3} \times \boxed{4} = \boxed{12}$$

$$\boxed{3} + \boxed{3} + \boxed{3} + \boxed{3} = \boxed{12}$$
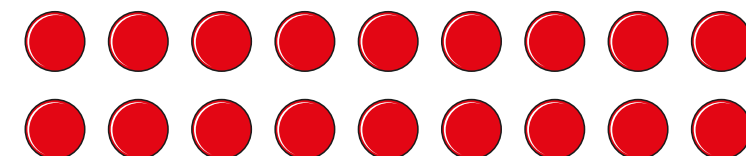
$$\boxed{4} \times \boxed{3} = \boxed{12}$$

What do you notice?

4 Write two multiplications for this array.

$$\boxed{2} \times \boxed{9} = \boxed{18}$$

$$\boxed{9} \times \boxed{2} = \boxed{18}$$

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?
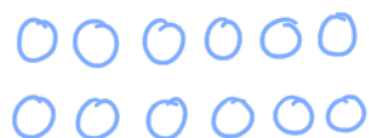
6 Draw three different arrays to show 12

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.

1 Complete the sentences.

Use the pictures to help you.

a)

Double 1 is [2]

b)

Double 2 is [4]

c)
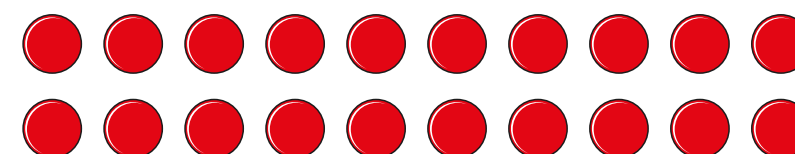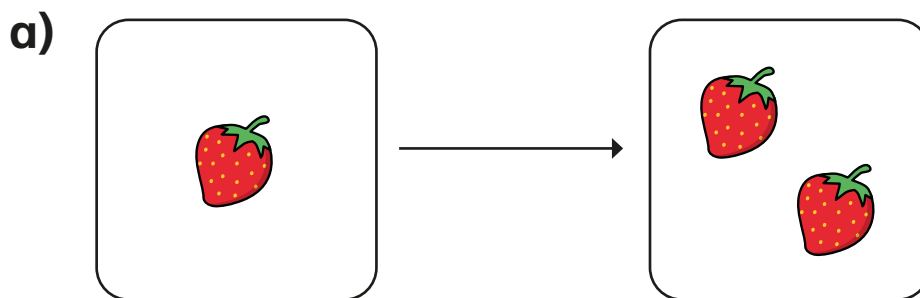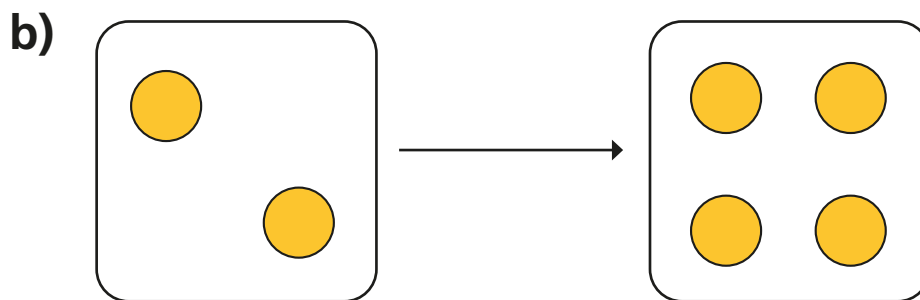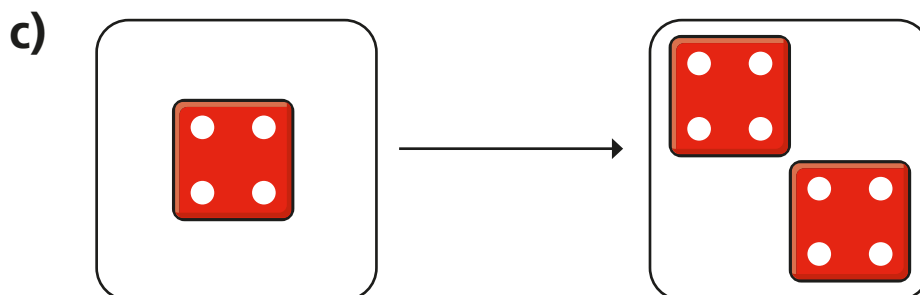
Double [4] is [8]

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
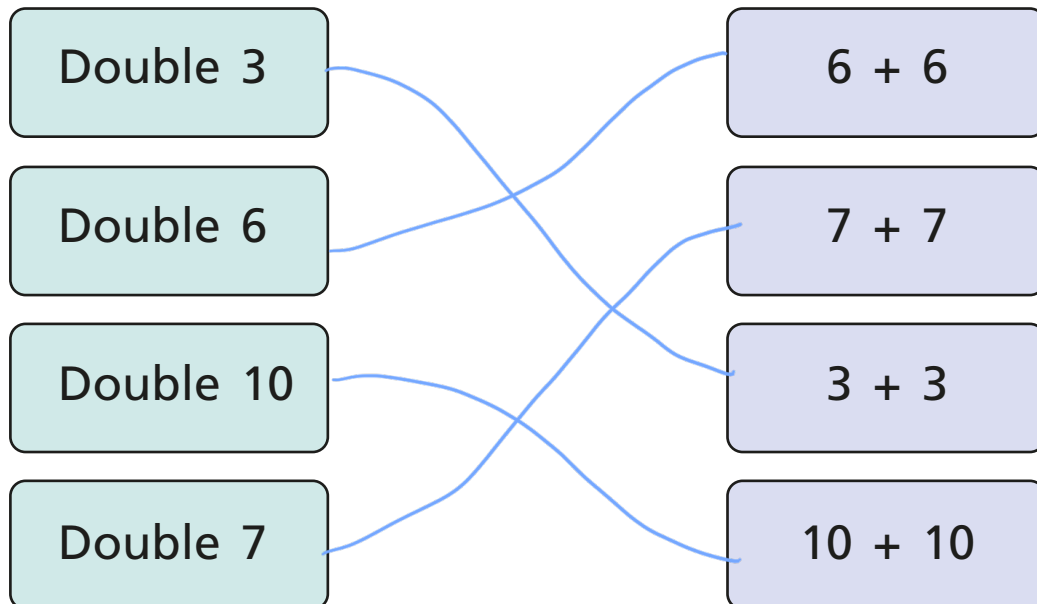
3 Fill in the gaps.

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

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

c) Double 12 is [24]

d) Double 20 is [40]

e) Double [4] is 8

f) Double [8] is 16

4

I have doubled the number of strawberries.
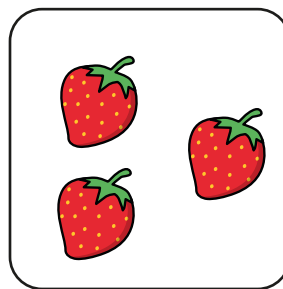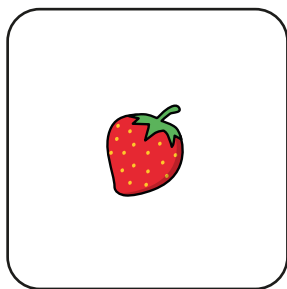
Do you agree with Mo? No

Talk about it with a partner.

1 Write a fact from the 2 times-table to match the picture.

a)

| 5 | × | 2 | = | 10 |

b)

| 7 | × | 2 | = | 14 |

c)
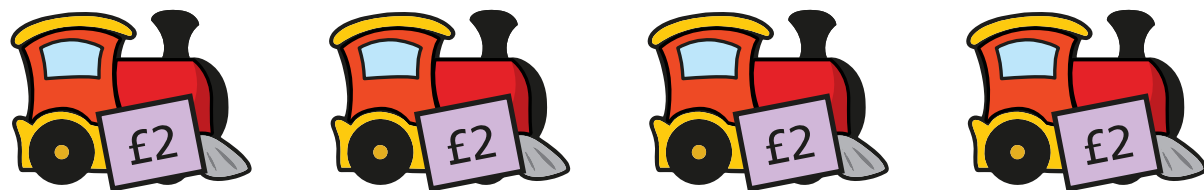
| 4 | × | £2 | = | £8 |

2 **a)** Complete the number line.

0   2   4   6   8   10   12   14   16

b) Which times-table does the number line show?

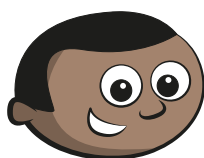Tick your answer.

1 times-table   2 times-table ✓

3 times-table

How do you know?

3 Complete the array and times-table fact so that they match.

a)

2 × 2 = 4

b)

2 × 5 = 10

c)
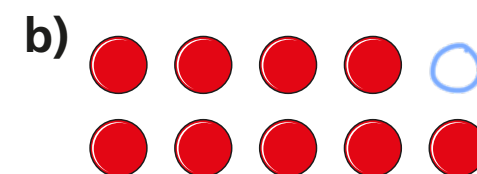
2 × 4 = 8

4 Complete the number sentences.

a) $3 \times 2 = \boxed{6}$

f) $\boxed{24} = 12 \times 2$

b) $\boxed{18} = 9 \times 2$

g) $2 \times \boxed{1} = 2$

c) $2 \times 5 = \boxed{10}$

h) $2 \times 0 = \boxed{0}$

d) $2 \times \boxed{2} = 4$

i) $14 = 2 \times \boxed{7}$

e) $12 = \boxed{6} \times 2$

j) $\boxed{11} \times 2 = 22$

5 Teddy has £8

Rosie has twice as much money as Teddy.

How much money does Rosie have?

Rosie has £ $\boxed{16}$

6 Eva is writing 10×2 in different ways.

I can write 10×2 as $3 \times 2 + 7 \times 2$
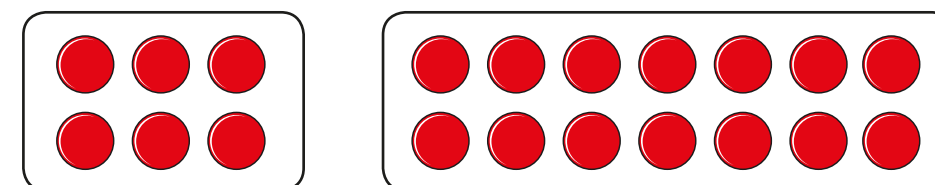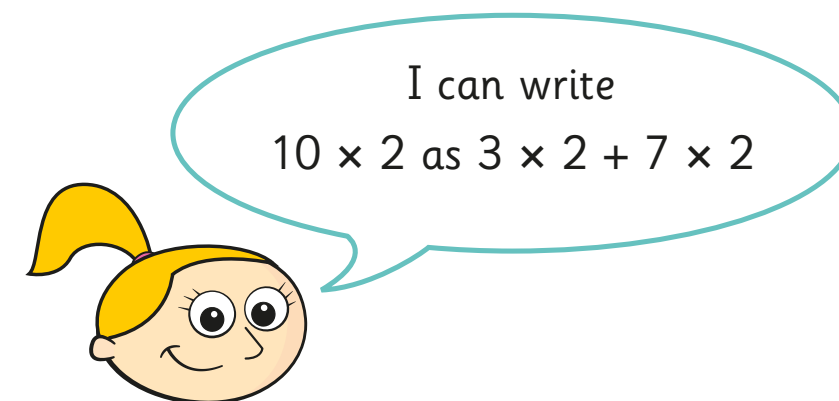
Find three more ways that you can write 10×2
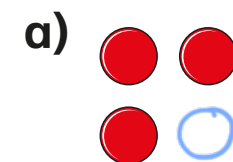
Use counters to help you.

$\boxed{1} \times \boxed{2} + \boxed{9} \times \boxed{2}$

$\boxed{2} \times \boxed{2} + \boxed{8} \times \boxed{2}$

$\boxed{4} \times \boxed{2} + \boxed{6} \times \boxed{2}$

Compare answers with a partner.

1 **a)** Match the picture to the times-table fact.

3 × 5

2 × 5

1 × 5

5 × 5
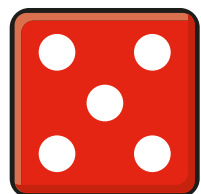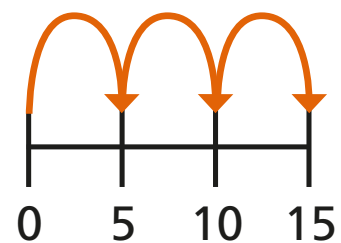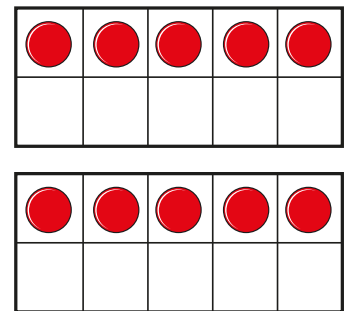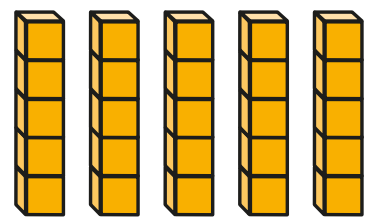
b) Draw a picture to show 4 × 5

Various answers e.g.
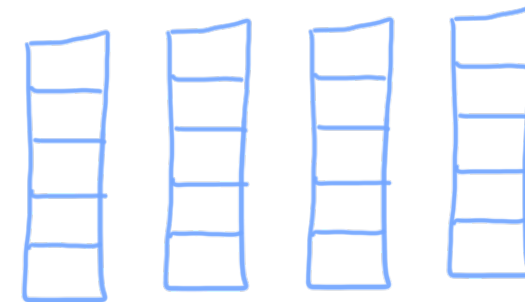
2 **a)** Complete the number line.
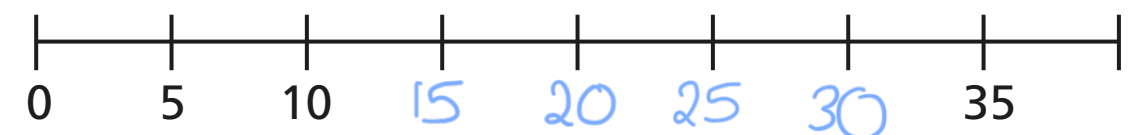
0   5   10   15   20   25   30   35

b) Which times-table does the number line show?

Tick your answer.

1 times-table   2 times-table

5 times-table ✓

How do you know?

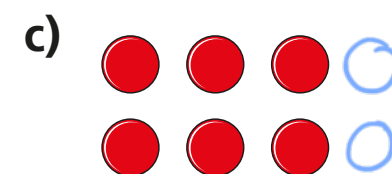**3** Complete the number sentences.

a) $5 \times 5 = \boxed{25}$

f) $\boxed{55} = 11 \times 5$

b) $\boxed{45} = 9 \times 5$

g) $5 \times \boxed{1} = 5$

c) $5 \times 6 = \boxed{30}$

h) $5 \times 0 = \boxed{0}$

d) $5 \times \boxed{8} = 40$

i) $10 = 5 \times \boxed{2}$

e) $35 = \boxed{7} \times 5$

j) $\boxed{12} \times 5 = 60$

4 How much money does Ron have?

Complete the multiplication.

$\boxed{10} \times \boxed{5p} = \boxed{50p}$

Ron has $\boxed{50}$ p.

5 Write <, > or = to compare the calculations.

7×5 $\bigcirc<$ 5×8

6×5 $\bigcirc=$ $4 \times 5 + 2 \times 5$

2×5 $\bigcirc=$ $3 \times 5 - 1 \times 5$

12×2 $\bigcirc=$ 2×12

6 A sandwich costs £2 and a box of crayons costs £5

£2   £5

Jack buys 5 sandwiches and 3 boxes of crayons.
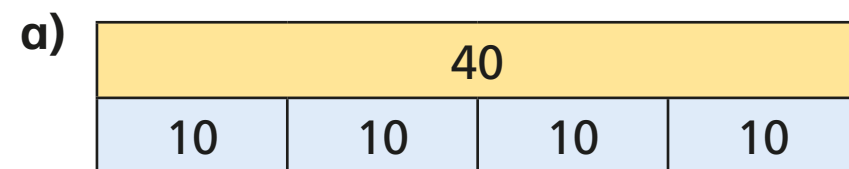
How much does he spend in total?

Jack spends £ $\boxed{25}$

1 How many cookies are there?

10 **10** **10** **10** **10** **10**
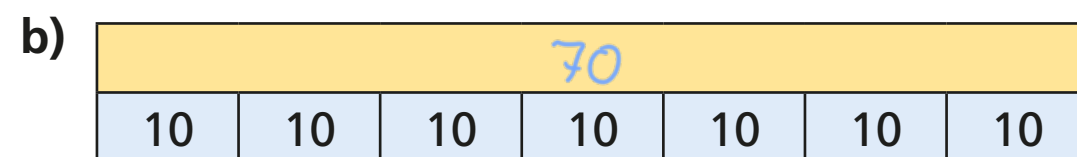
$$\boxed{6} \times 10 = \boxed{60}$$

There are $\boxed{60}$ cookies.

2 Complete the multiplication fact to match the bar model.
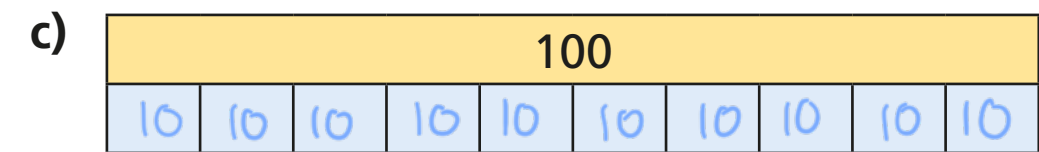
a)

40			
10	10	10	10

$$\boxed{4} \times \boxed{10} = \boxed{40}$$

b)

70						
10	10	10	10	10	10	10

$$\boxed{7} \times \boxed{10} = \boxed{70}$$

c)

100									
10	10	10	10	10	10	10	10	10	10

$$\boxed{10} \times \boxed{10} = \boxed{100}$$

3 Draw a bar model to represent 5 × 10

50				
10	10	10	10	10

4 a) Complete the number line.

0   10   20   30   40   50   60   70   80
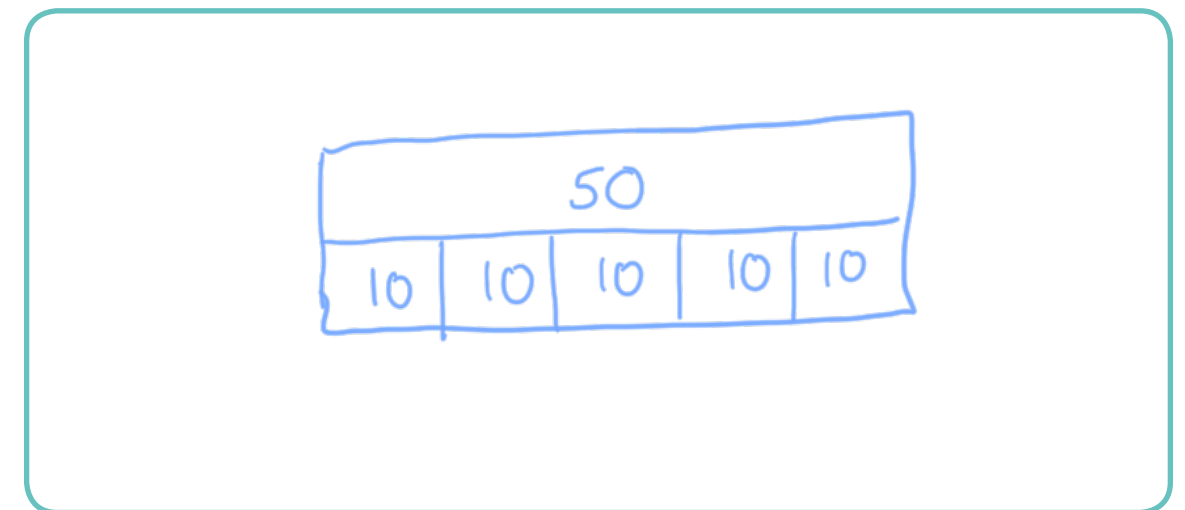
b) Which times-table does the number line show?

Tick your answer.

10 times-table ✓   5 times-table   1 times-table

How do you know?

5 Complete the number sentences.

a) $2 \times 10 = \boxed{20}$ 　　　 **f)** $\boxed{100} = 10 \times 10$

b) $\boxed{70} = 7 \times 10$ 　　　 **g)** $10 \times \boxed{1} = 10$

c) $10 \times 4 = \boxed{40}$ 　　　 **h)** $10 \times 0 = \boxed{0}$

d) $10 \times \boxed{11} = 110$ 　　　 **i)** $30 = 10 \times \boxed{3}$

e) $80 = \boxed{8} \times 10$ 　　　 **j)** $\boxed{9} \times 10 = 90$
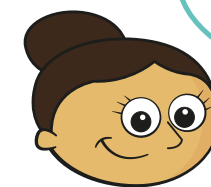
6 Eva is 7 years old.

Her gran is 10 times older.

How old is Eva's gran?

Eva's gran is $\boxed{70}$ years old.

7 Four children each have some money.
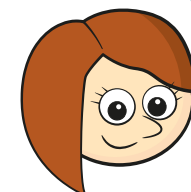
Teddy has this money.

Dora: I have twice as much money as Teddy.

Jack: I have five times as much money as Teddy.

Rosie: I have ten times as much money as Dora.

How much money do they each have?

Teddy has $\boxed{4}$ p 　　 Dora has $\boxed{8}$ p

Jack has $\boxed{20}$ p 　　 Rosie has $\boxed{80}$ p