bar

6

array

groups

number line

0                                6

scaling

$\times \square$     $\times \square$

2    3

$3 \times 2 = 3 + \square$

$= \square$

$3 \times 2 = 3 \times \square + 3 \times \square$

$= \square + \square$

$= \square$

Double 3 = $\square$

6

3   2

6

If I know $3 \times 2 = 6$ then I also know...

$\square \times \square = 6$

$6 = \square \times \square$

$6 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 3 is ___each

___ put into groups of 3 is ___ groups of 3

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$3 = 6 \div \square$

$6 = 2 \times \square$

$\frac{1}{3}$ of $\square = 2$

$\square \times 3 = 6$

How many sides are there in **total** on two triangles?

Seb has £3. George has twice as much. How much has George?

Three equal bags of carrots weigh 6kg. How much does **each** bag weigh?

Ali buys 6 apples. He eats the same number of apples each day and they last him 3 days. How many apples does he eat **each** day?

Double 6 is 3 True or false?

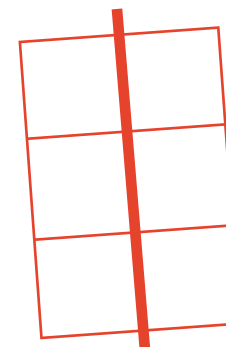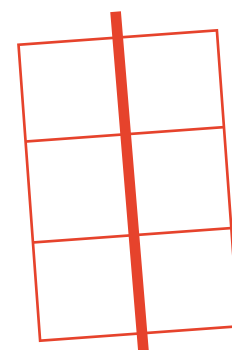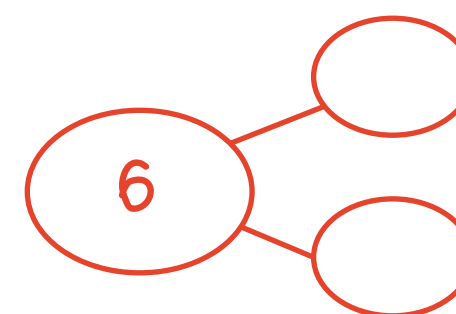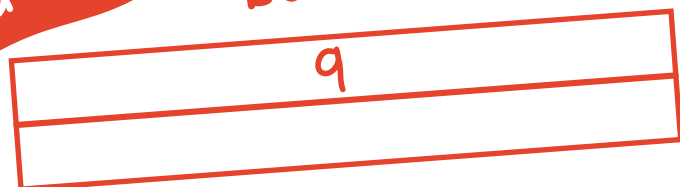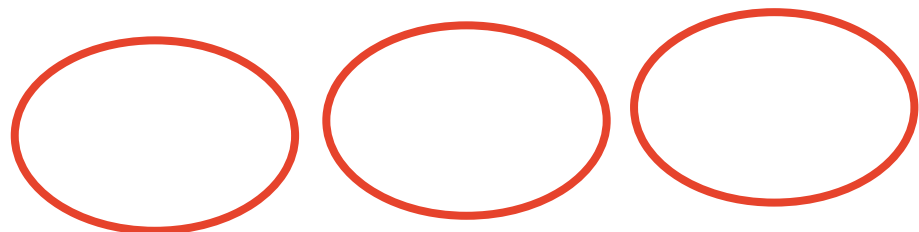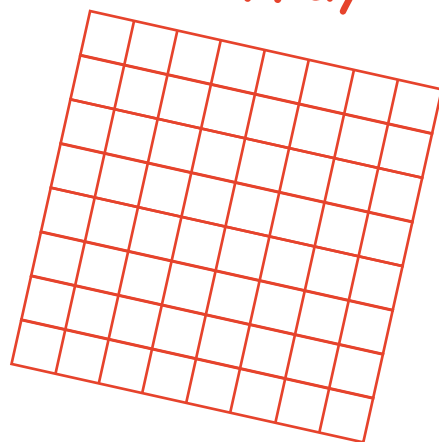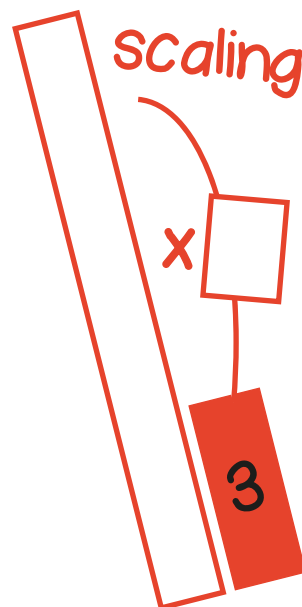www.buzzardpublishing.com
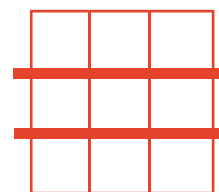
bar

9

array

groups

number line

0          9

scaling

$\times \square$
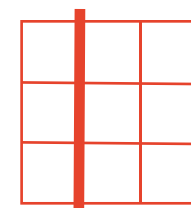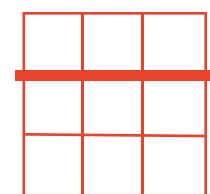
3

$3 \times 3 = 3 + \square + \square$
$= \square$

$3 \times 3 = 3 \times \square + 3 \times \square$
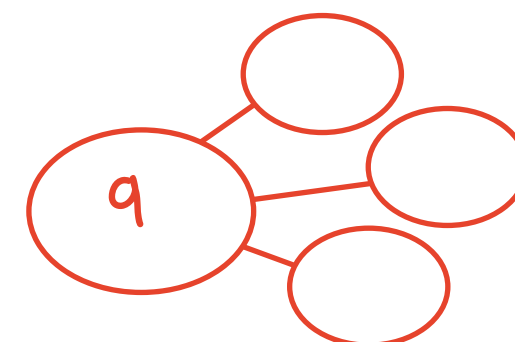$= \square + \square$
$= \square$

$3 \times 3 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

9

3   3
9

If I know $3 \times 3 = 9$ then I also know...

$\square \times \square = 9$

$9 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ is a factor of __

__ is a multiple of __

$3 = 9 \div \square$

$9 = 3 \times \square$

$\square \div 3 = 3$

$\frac{1}{3}$ of $\square = 3$

If I draw three triangles, how many sides have I drawn **in total**?

There are three chairs in each stack. How many chairs are there in 3 stacks **altogether**?

Nine bananas are shared equally between three monkeys. How many bananas do they **each** have?

A scarf has 9 stripes. There are 3 stripes of **each** colour. How many colours are there?
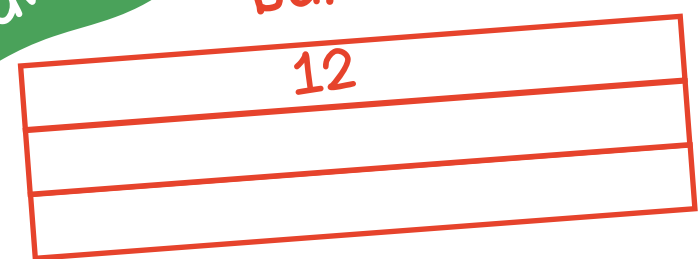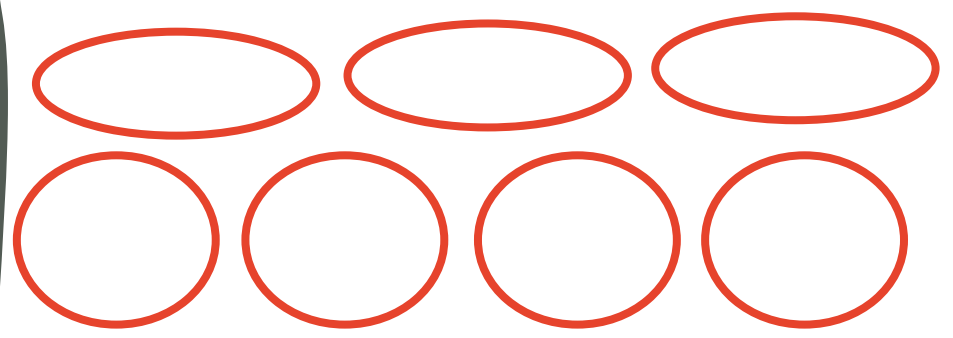
3 is a multiple of 9
True or false?

**bar**

12

**array**

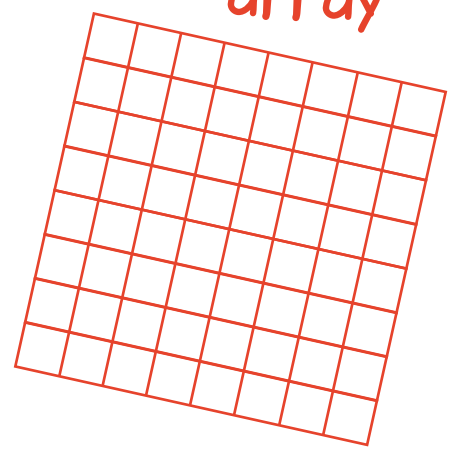**groups**

**scaling**

x □   x □

4   3

**number line**

0          12
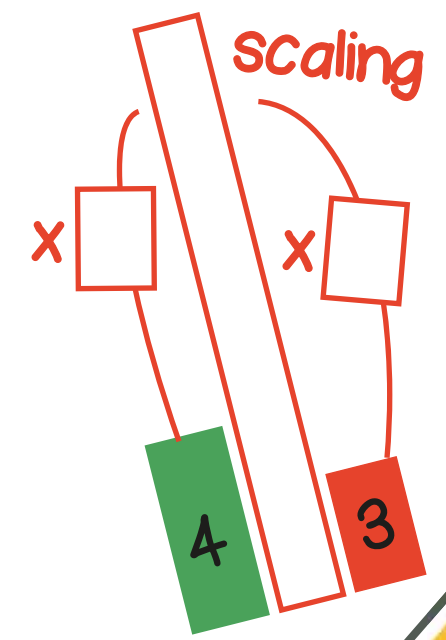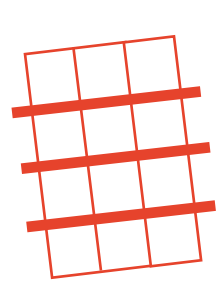
$3 \times 4 = 3 + \Box + 3 + \Box$
$= \Box$

$3 \times 4 = 3 \times \Box + 3 \times \Box$
$= \Box + \Box$
$= \Box$

$3 \times 4 = 3 \times \Box + 3 \times \Box$
$= \Box + \Box$
$= \Box$

$3 \times 4 = 3 \times \Box + 3 \times \Box$
$= \Box + \Box$
$= \Box$

3   4
12
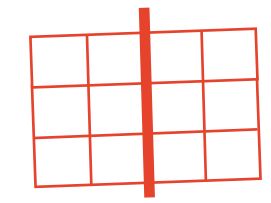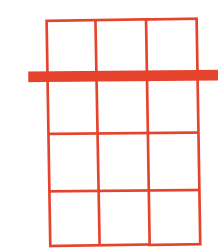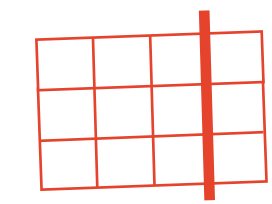
If I know $3 \times 4 = 12$ then I also know...

$\Box \times \Box = 12$

$12 = \Box \times \Box$

$12 = \Box \times \Box$

$\Box \div \Box = \Box$

$\Box = \Box \div \Box$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __
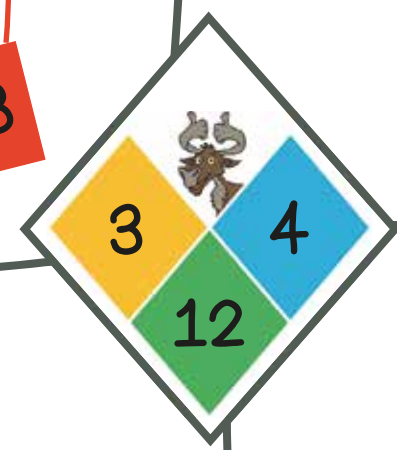
$3 = 12 \div \Box$

$12 = 4 \times \Box$

$\Box \div 3 = 4$

$\Box \times 3 = 12$

There are three legs on **each** stool. If there are 4 stools, how many legs are there in **total**?

**Each** dinosaur has 3 horns. There are 12 horns in total. How many dinosaurs are there **altogether**?

There were three cats playing. How many cats' legs **in total**?

Bobby spent £12 on three books that each cost the same amount. How much were they **each**?

True or false?
One third of 12 is 4

**bar**

15

**array**

**groups**

**scaling**

x □    x □

5    3

**number line**

0    15

$3 \times 5 = 3 + □ + 3 + □ + □$
$= □$

$3 \times 5 = 3 \times □ + 3 \times □$
$= □ + □$
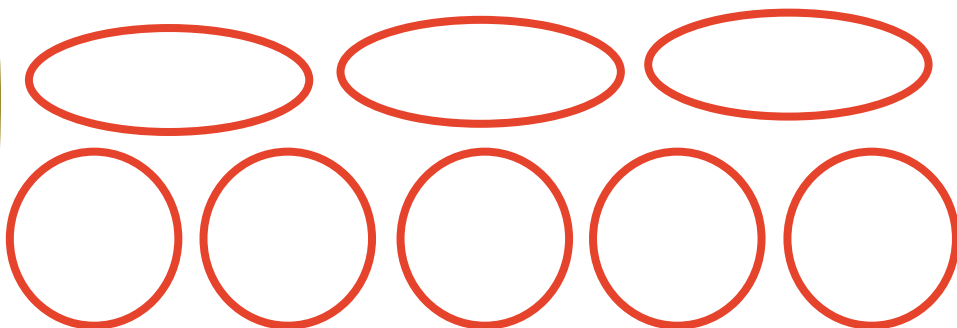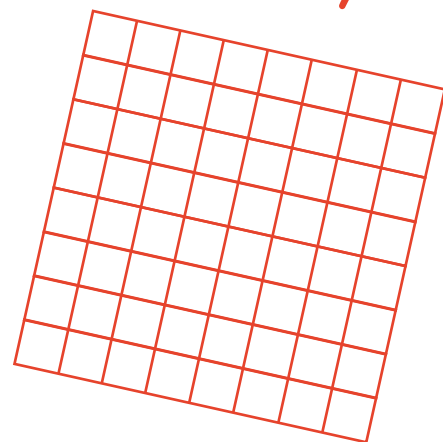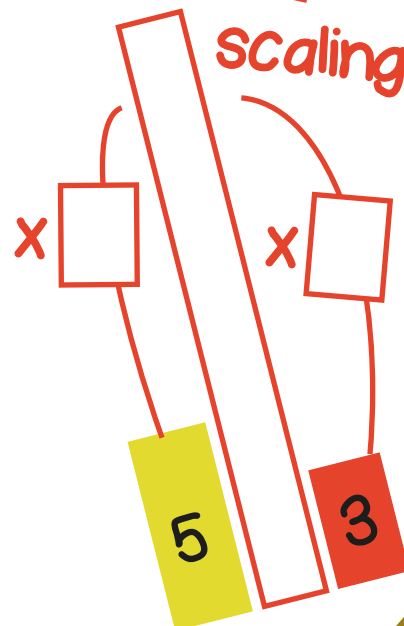$= □$

$3 \times 5 = 3 \times □ + 3 \times □$
$= □ + □$
$= □$

$3 \times 5 = 3 \times □ + 3 \times □$
$= □ + □$
$= □$

3    5
15

If I know 3 x 5 = 15 then I also know…

$□ \times □ = 15$

$15 = □ \times □$

$15 = □ \times □$

$□ \div □ = □$

$□ = □ \div □$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __

$3 = 15 \div □$

$15 = 5 \times □$

$□ \div 3 = 5$

$□ \times 3 = 15$
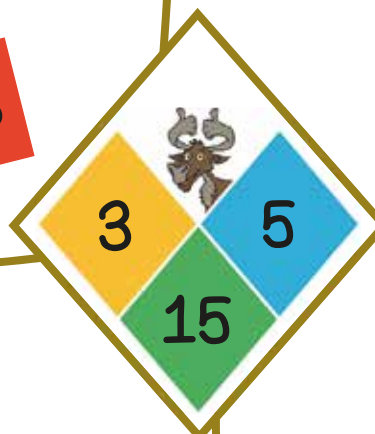
Gill draws 5 triangles. How many sides has she drawn in **total**?

There are 15 footballers. They get into three equal teams. How many players are in **each** team?

A toy shop has five tricycles. How many wheels have they got **altogether**?

A gardener plants 15 bulbs so there are 3 in each pot. How many pots does he need in **total**?

$5 \div 15 = 3$
True or false?

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## bar

18

## array

## groups

## scaling

x ☐     x ☐

6   3

## number line
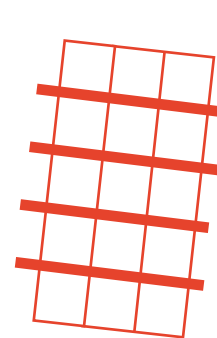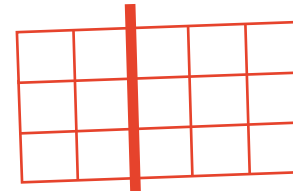
0                                    18

$3 \times 6 = 3 + \square + 3 + \square + \square + \square$
$= \square$

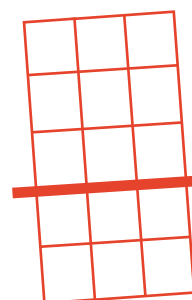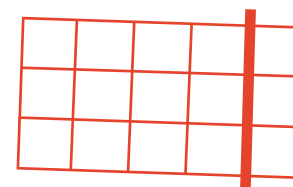$3 \times 6 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 6 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 6 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

3   6
18

If I know $3 \times 6 = 18$ then I also know…

$\square \times \square = 18$

$18 = \square \times \square$

$18 = \square \times \square$

$\square \div \square = \square$
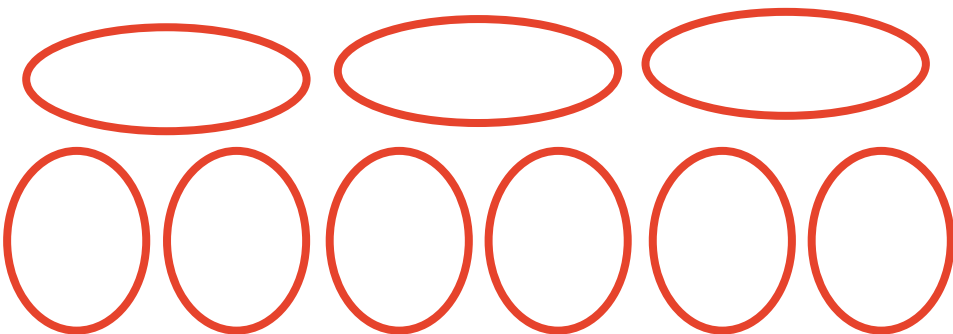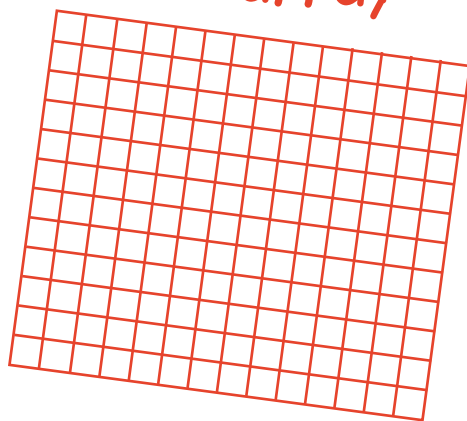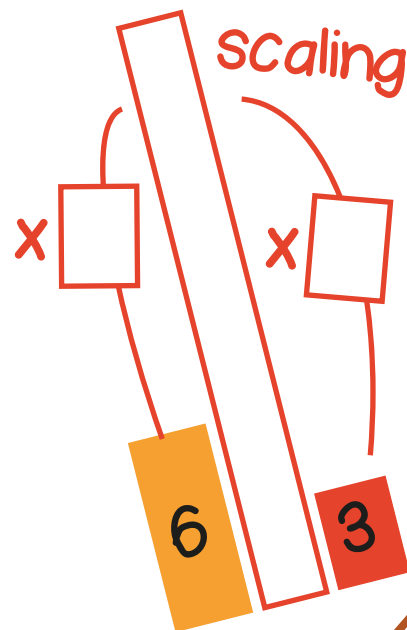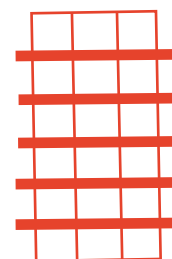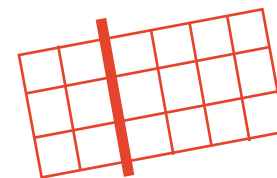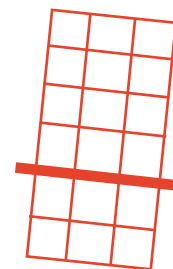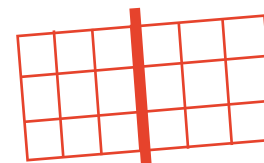
$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __

$3 = 18 \div \square$

$18 = 6 \times \square$

$\frac{1}{3}$ of $\square = 6$

$\square \times 3 = 18$

How many sides are there in **total** on three hexagons?

There are three beetles. If there are 18 beetles' legs, how many legs do they have **each**?

Harry saves £6 per week for three weeks. How much does he save **altogether**?

There are three DVDs in **each** box set. If there are 18 DVDs how many box sets can be made?
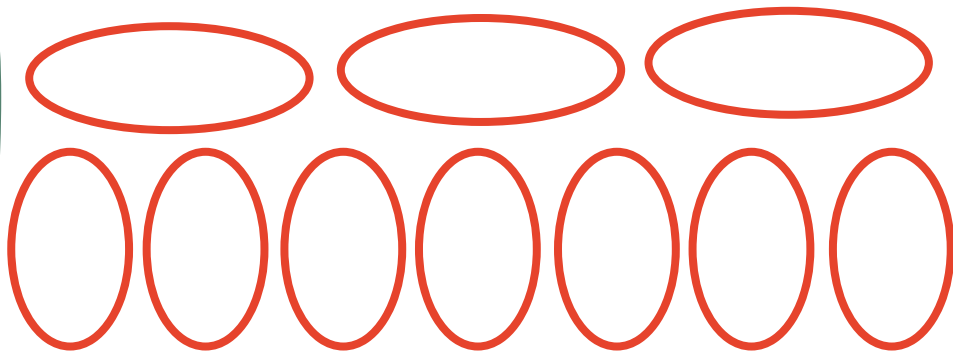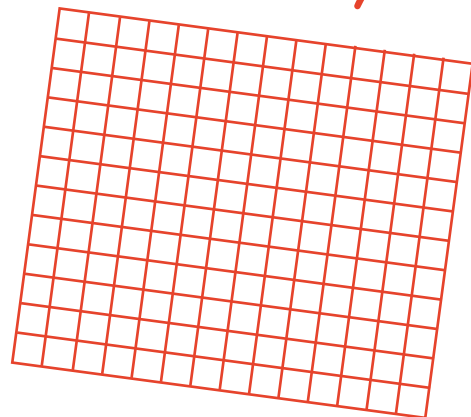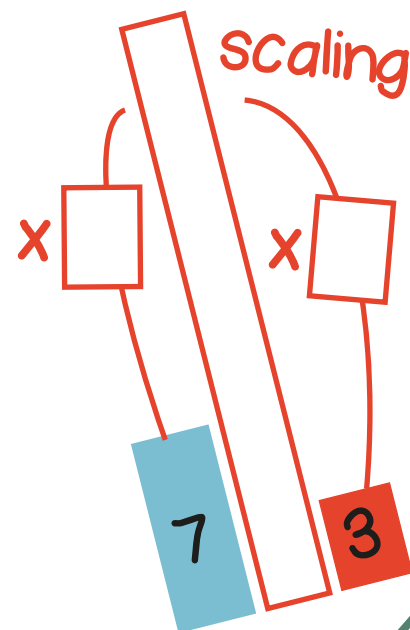
$6 \div 18 = 3$
True or false?

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**bar**

21

**array**

**groups**

**scaling**

x ☐    x ☐

7   3

**number line**

0                    21

3 x 7 = 3 x ☐ + 3 x ☐
= ☐ + ☐
= ☐

3 x 7 = 3 x ☐ + 3 x ☐
= ☐ + ☐
= ☐

3 x 7 = 3 x ☐ + 3 x ☐
= ☐ + ☐
= ☐

3 x 7 = 3 x ☐ + 3 x ☐
= ☐ + ☐
= ☐

3    7

21

If I know 3 x 7 = 21 then I also know…

☐ x ☐ = 21

21 = ☐ x ☐

21 = ☐ x ☐

☐ ÷ ☐ = ☐

☐ = ☐ ÷ ☐

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __

3 = 21 ÷ ☐

21 = ☐ x 7

$\frac{1}{3}$ of ☐ = 7

☐ x 3 = 21

Amy jogs 3km **each** day. How far does she jog in one week **in total**?

Sam draws some triangles. If he draws 21 sides **in total**, how many triangles has he drawn?

Ricky goes on holiday for three weeks. For how many days is he on holiday **in total**?

Three friends earn £21 gardening. If they each earn the same amount how much do they **each** earn?

3 x 7 = 7 x 3
True or false?

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**bar**

24

**array**

**groups**

**number line**

0 ———————————— 24

**scaling**

x ☐ x ☐

8 3

$3 \times 8 = 3 + ☐ + 3 + ☐ + ☐$
$= ☐$

$3 \times 8 = 3 \times ☐ + 3 \times ☐$
$= ☐ + ☐$
$= ☐$

$3 \times 8 = 3 \times ☐ + 3 \times ☐$
$= ☐ + ☐$
$= ☐$

$3 \times 8 = 3 \times ☐ + 3 \times ☐$
$= ☐ + ☐$
$= ☐$

3 | 8
24

If I know $3 \times 8 = 24$ then I also know…

$☐ \times ☐ = 24$

$24 = ☐ \times ☐$

$24 = ☐ \times ☐$

$☐ \div ☐ = ☐$

$☐ = ☐ \div ☐$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __

$3 = 24 \div ☐$

$24 = 3 \times ☐$

$☐ \div 3 = 8$

$☐ \times 3 = 24$

How many sides are there on eight triangles **altogether**?

24 chairs are arranged in three equal rows. How many chairs are in **each** row?

A gardener plants 24 bulbs in 3 pots. There is an equal number in each pot. How many in **each** pot?

Carrots are sold in bags of 3kg. How many kilogams of carrots are in eight bags in **total**?

$8 \div 24 = 3$
True or false?

**bar**

27

**array**

$3 \times 9 = 3 \times \square + 3 \times \square$
$= \square + \square$
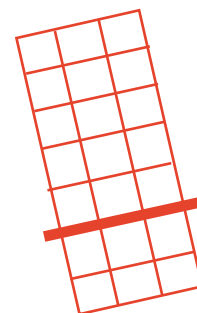$= \square$

$3 \times 9 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$
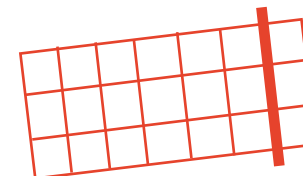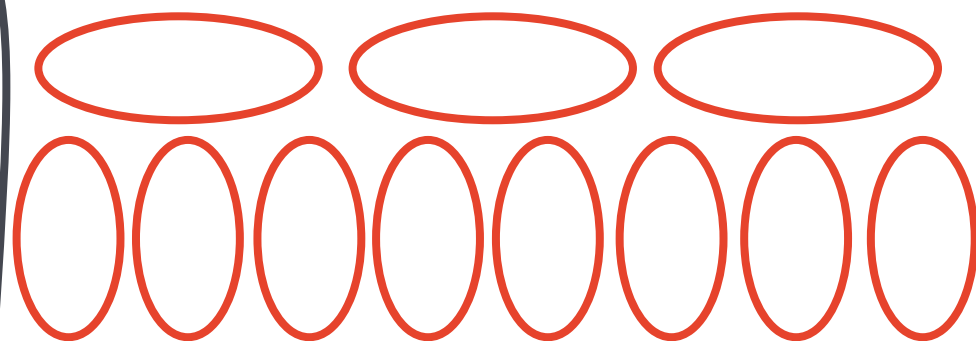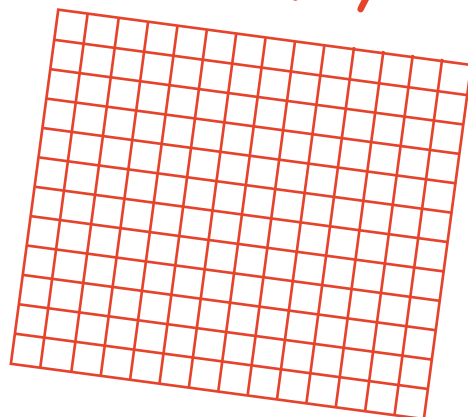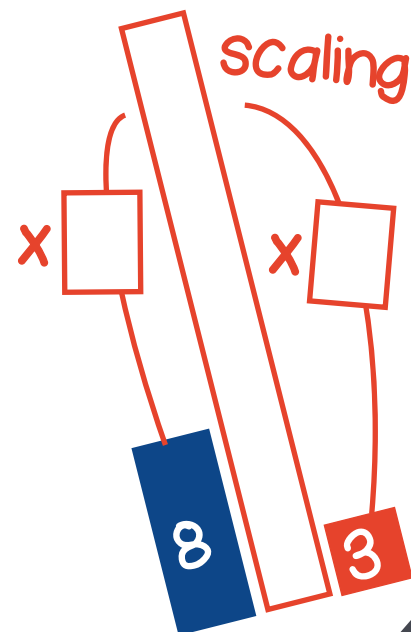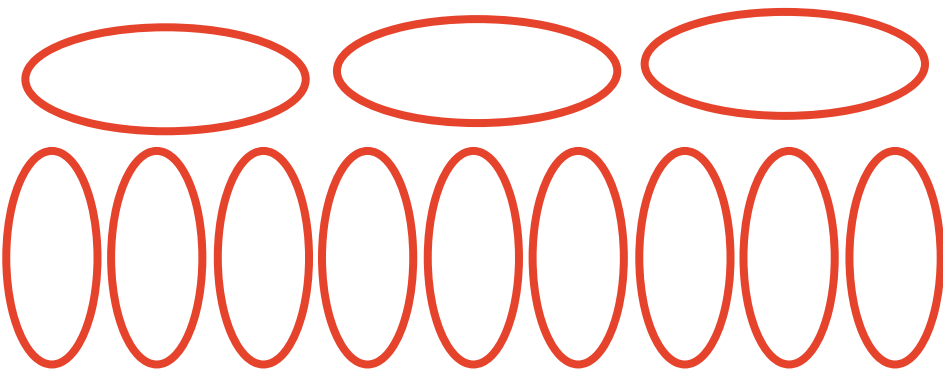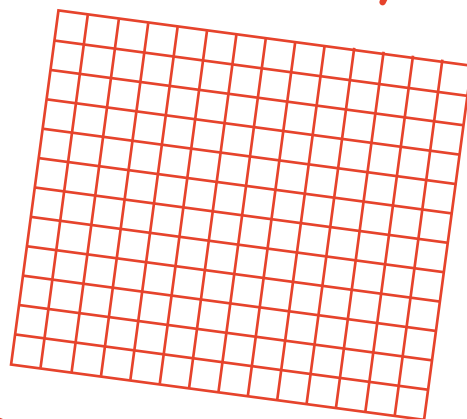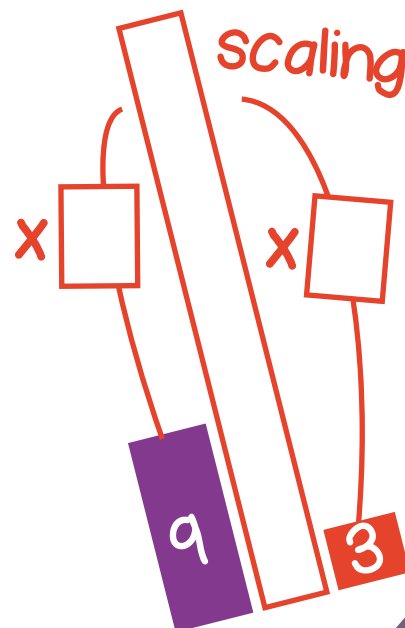
$3 \times 9 = 3 \times \square + 3 \times \square + 3 \times \square$
$= \square + \square + \square$
$= \square$

$3 \times 9 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

**groups**

**scaling**

$\times \square \qquad \times \square$

9    3

**number line**

0                    27

3    9

27

**If I know** $3 \times 9 = 27$ **then I also know…**

$\square \times \square = 27$

$27 = \square \times \square$

$27 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 3 is ___ each

___ put into groups of 3 is ___ groups of 3

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$3 = 27 \div \square$

$27 = 9 \times \square$

$\square \div 3 = 9$

$\square \times 3 = 27$

Tessa spent a third of her savings on a book. The book cost £9. How much had she saved **in total**?

An amazing striker scores three goals in **each** of nine football matches. How many goals **in total**?

There are nine triangles. How many sides **altogether**?

Parcels **each** weigh 3kg. If the **total** weight is 27kg how many parcels are there?

True or false?
One third of 9 is 27

## bar

30

## array

## groups

## number line

0                    30

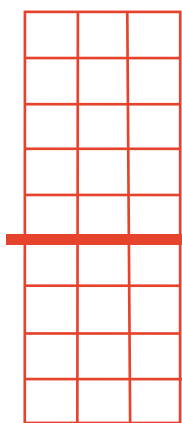## scaling

x □    x □

10    3

$3 \times 10 = 3 \times \square + 3 \times \square$
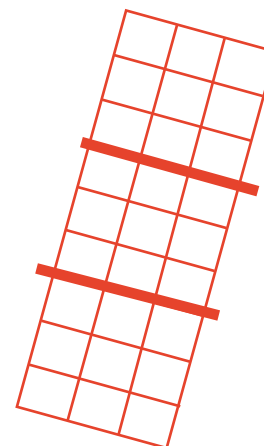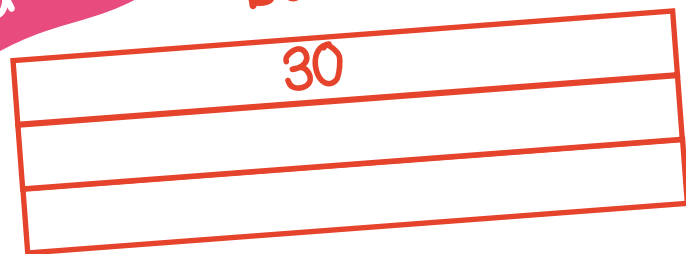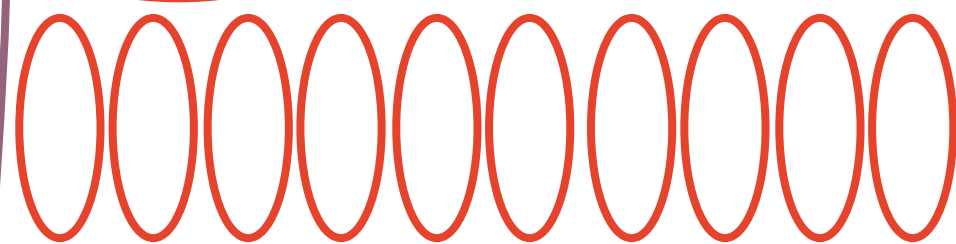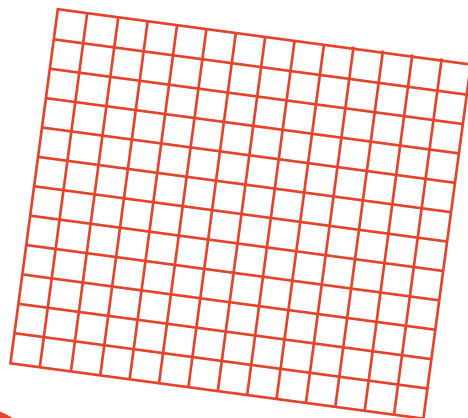$= \square + \square$
$= \square$

$3 \times 10 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 10 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 10 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

3    10

30
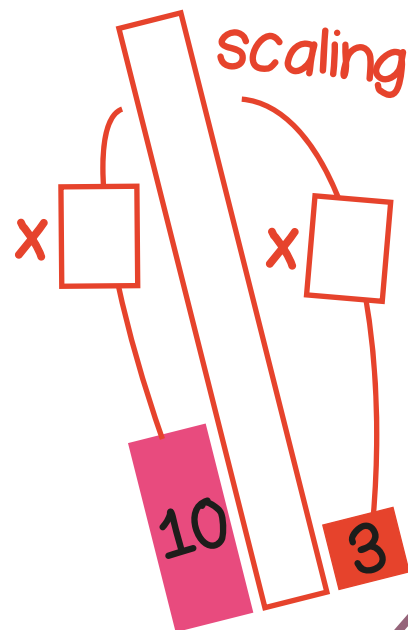
If I know $3 \times 10 = 30$ then I also know...

$\square \times \square = 30$

$30 = \square \times \square$

$30 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 3 is ___ each

___ put into groups of 3 is ___ groups of 3

___ and ___ are factors of ___

___ is a multiple of ___ and ___
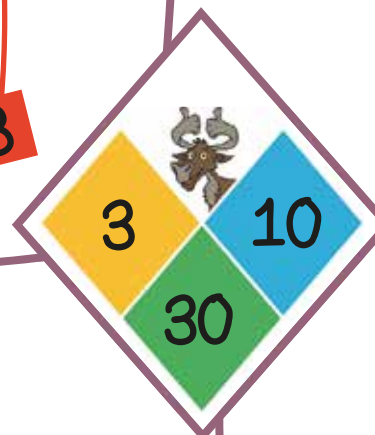
$3 = 30 \div \square$

$30 = 10 \times \square$

$\frac{1}{3}$ of $\square = 10$

$\square \times 3 = 30$

How many sides are there in **total** on ten triangles?

Will's three dogs eat ten biscuits each. How many biscuits do they eat **in total**?

Katy has ten packs of pens. There are three pens in each pack. How many pens **altogether**?

Doris buys ice creams for £3 **each**. She spends £30 in total. How many ice creams did she buy **altogether**?

$10 \div 30 = 3$
True or false?

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**bar**

33

**array**

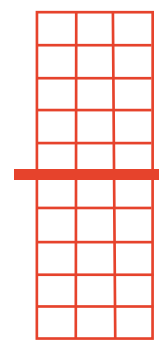**groups**

**number line**

0                    33

**scaling**

x ☐          x ☐

11    3

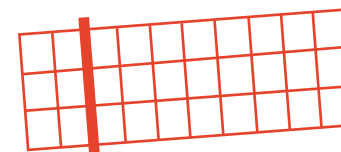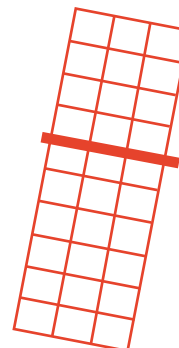$3 \times 11 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

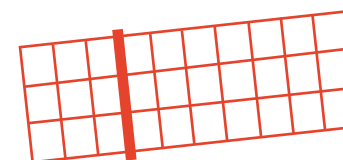$3 \times 11 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 11 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 11 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

3    11
33

If I know 3 x 11 = 33 then I also know...

$\square \times \square = 33$

$33 = \square \times \square$

$33 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$
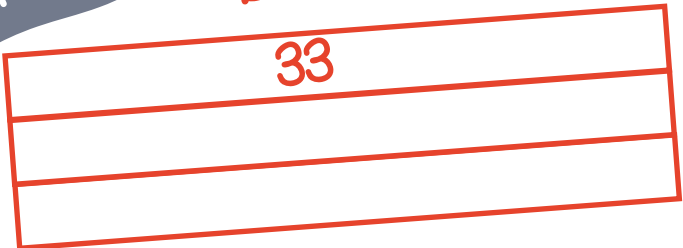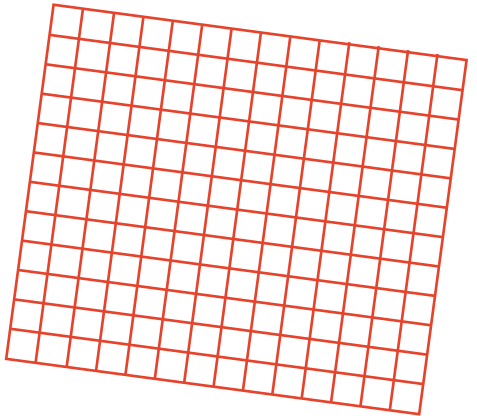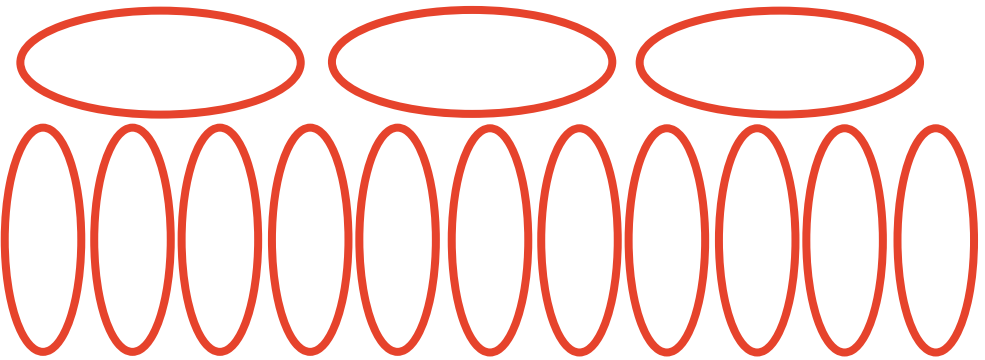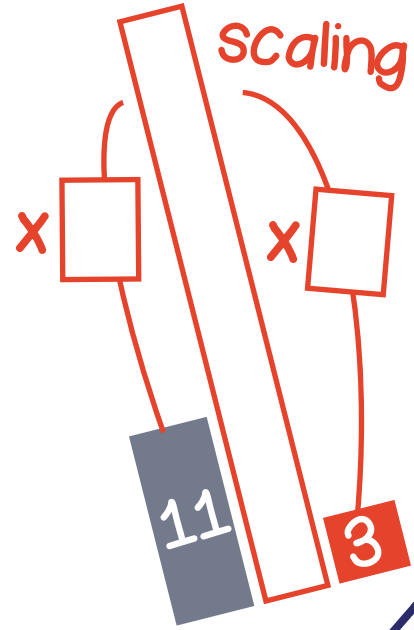
___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 3 is ___ each

___ put into groups of 3 is ___ groups of 3

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$3 = \square \div 11$

$33 = \square \times 11$

$\frac{1}{3}$ of $\square = 11$

$\square \times 3 = 33$

A budgie breeder keeps 33 budgies equally in three areas. How many budgies are in **each** area?

A football trainer has eleven nets with three balls in **each** net. How many balls are there **in total**?

**Each** bottle holds 3 litres of juice. How much juice is there **altogether** in eleven bottles?

If Chen spent £33 on cakes that cost £3 **each**, how many cakes did she buy?

True or false?
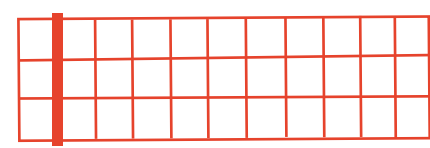$3 \times 11 = 10 \times 3 + 3$

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**bar**

36

**array**
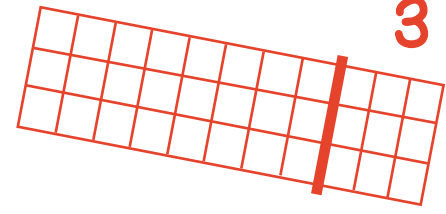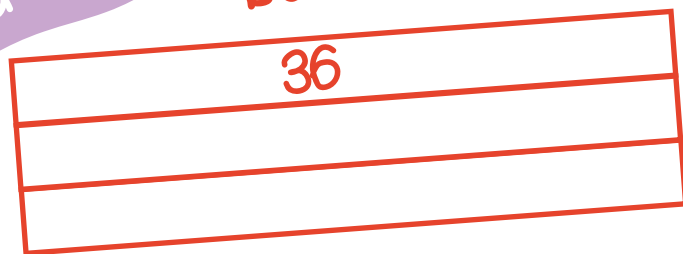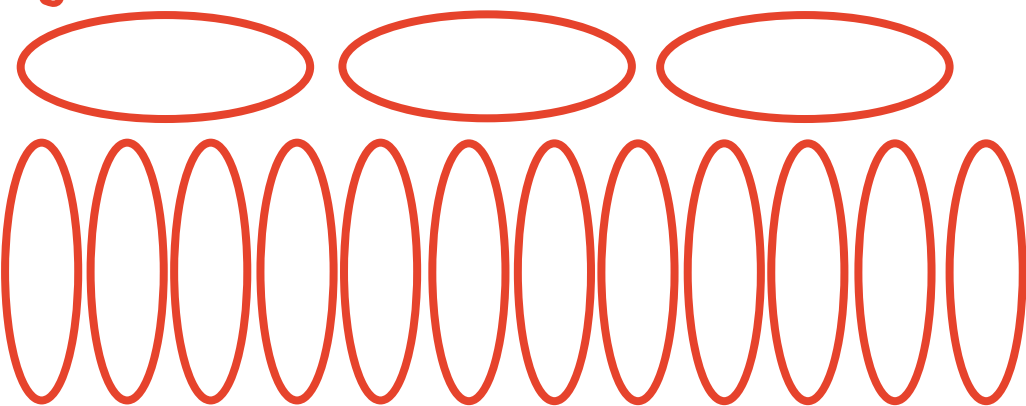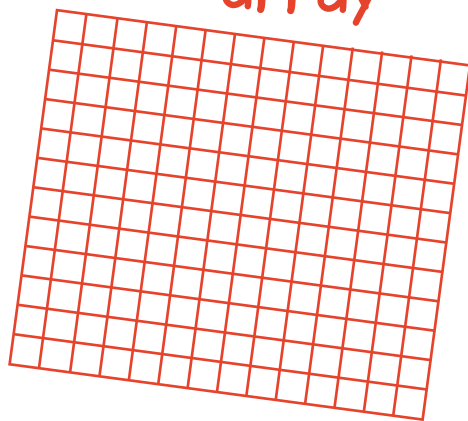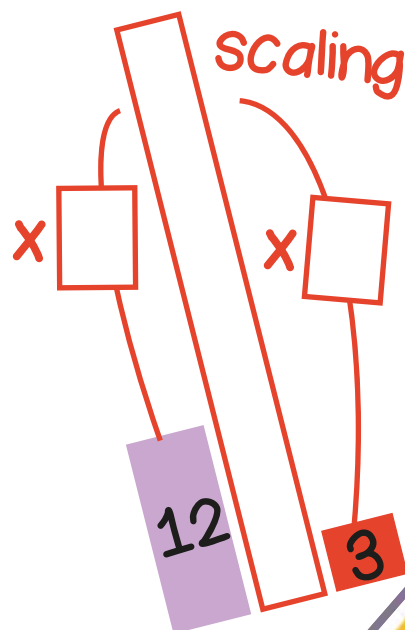
$3 \times 12 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 12 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

$3 \times 12 = 3 \times \square + 3 \times \square + 3 \times \square$
$= \square + \square + \square$
$= \square$

$3 \times 12 = 3 \times \square + 3 \times \square$
$= \square + \square$
$= \square$

**groups**

**scaling**

$\times \square$  $\times \square$

12  3

**number line**

0                    36

3  12
36

If I know 3 x 12 = 36 then I also know...

$\square \times \square = 36$

$36 = \square \times \square$

$36 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 3 is __ each

__ put into groups of 3 is __ groups of 3

__ and __ are factors of __

__ is a multiple of __ and __

$3 = \square \div 12$

$36 = \square \times 12$

$\frac{1}{3}$ of $\square = 12$

$\square \times 3 = 36$

**Each** box holds a dozen eggs. How many eggs are there in 3 boxes?

Three minibuses carry 36 people equally. How many people are there in **each** minibus?

A shopkeeper packs 36kg of potatoes into 3kg bags. How many bags can he fill **in total**?

**Each** piece of ribbon is 3m long. How long will 12 pieces of ribbon be **altogether**?

True or false?
3 x 12 is double 3 x 6

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