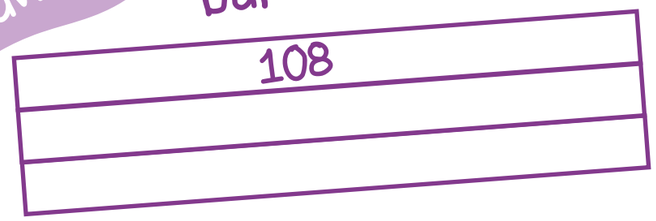
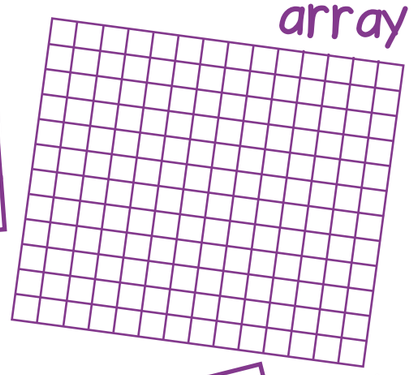
Draw it

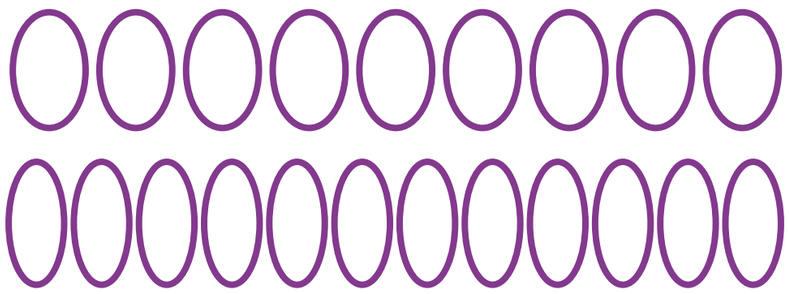
bar



array

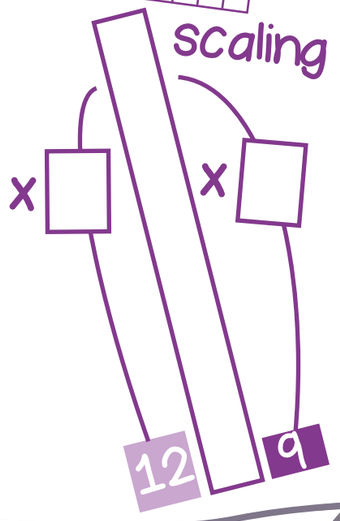


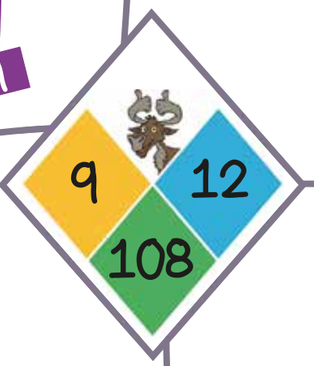
groups



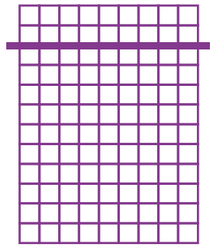
number line

scaling





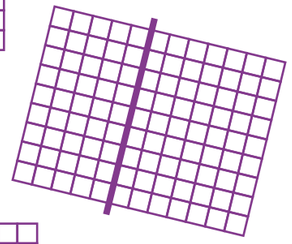
Dissect it



$9 \times 12 = 9 \times \square + 9 \times \square$

$= \square + \square$

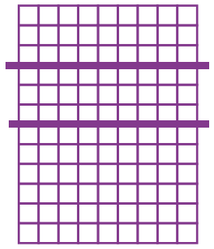
$= \square$



$9 \times 12 = 9 \times \square + 9 \times \square$

$= \square + \square$

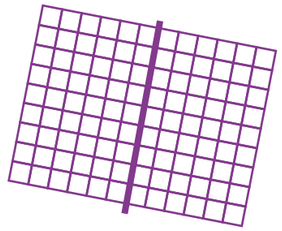
$= \square$



$9 \times 12 = 9 \times \square + 9 \times \square + 9 \times \square$

$= \square + \square + \square$

$= \square$



$9 \times 12 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

If I know $9 \times 12 = 108$ then I also know...

$\square \times \square = 108$

$108 = \square \times \square$

$108 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 12$

$10{,}800 = \square \times 12$

$12 = \square \div 90$

$\square \times 9 = 108$

$\frac{1}{9}$ of $\square = 12$

$1080 \div 9 = 120$

True or false?

Each packet has 12 biscuits. How many biscuits are there in nine packets **altogether**?

Each ticket for a concert costs £90 How much would 12 tickets cost **in total**?

On a bracelet, **each** charm is worth £90. How many charms are worth £1080 **altogether**?

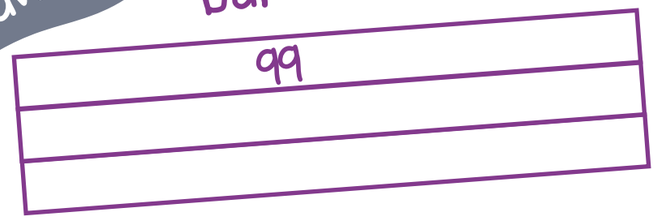
Bags of nuts weigh 900g **each**. How many bags of nuts can be filled from 10.8kg of nuts?

Derive it

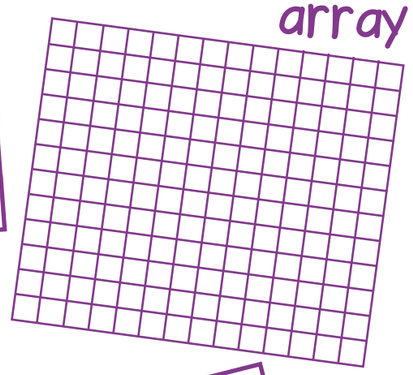
Deepen it

Draw it

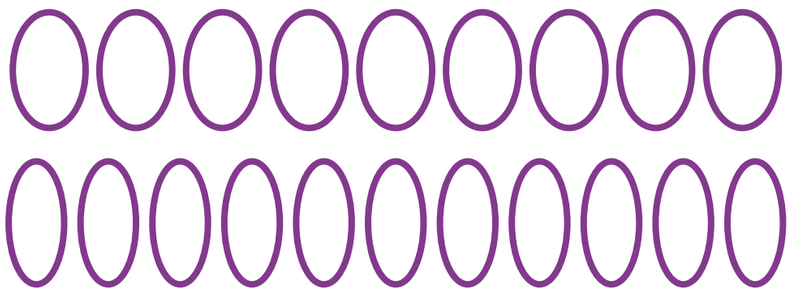
bar



array

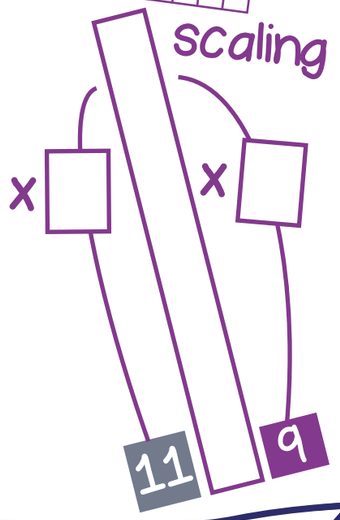


groups

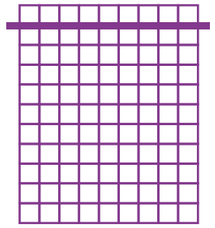


number line

scaling



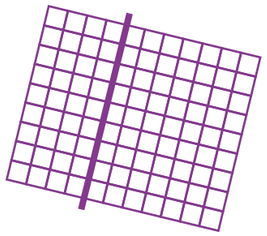
Dissect it



$9 \times 11 = 9 \times \square + 9 \times \square$

$= \square + \square$

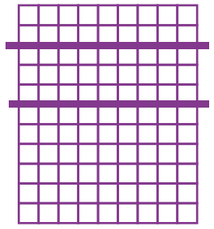
$= \square$



$9 \times 11 = 9 \times \square + 9 \times \square$

$= \square + \square$

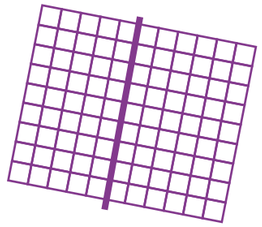
$= \square$



$9 \times 11 = 9 \times \square + 9 \times \square + 9 \times \square$

$= \square + \square + \square$

$= \square$



$9 \times 11 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

If I know $9 \times 11 = 99$ then I also know...

$\square \times \square = 99$

$99 = \square \times \square$

$99 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 11$

$9900 = \square \times 11$

$11 = \square \div 90$

$\square \times 9 = 990$

$\frac{1}{9}$ of $\square = 110$

$990 \div 90 = 11$

True or false?

A delivery route is 90km. How far does a delivery van travel if it completes the route 11 times?

Each of the 11 footballers in a team gets paid £900. How much does this cost **in total**?

Parcels **each** weigh 9kg. The **total** of all the parcels is 99kg. How many parcels are there?

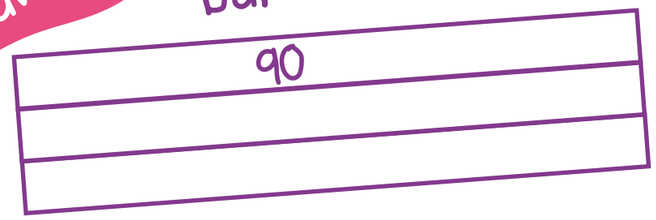
In 9 months a car travels 9900km. How many km does it travel **each** month if **each** month is the same?

Derive it

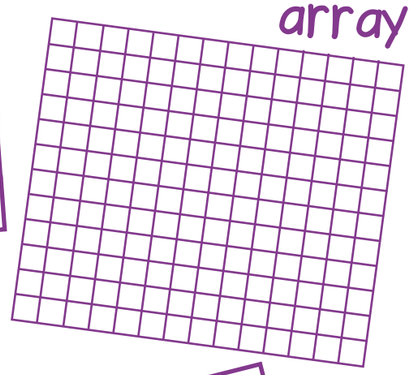
Deepen it

Draw it

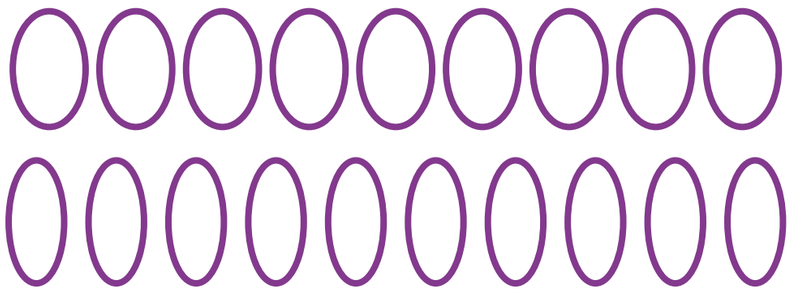
bar



array

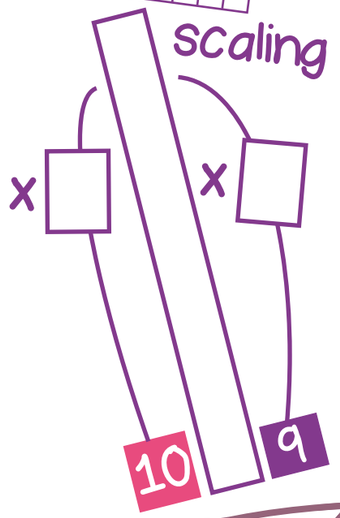


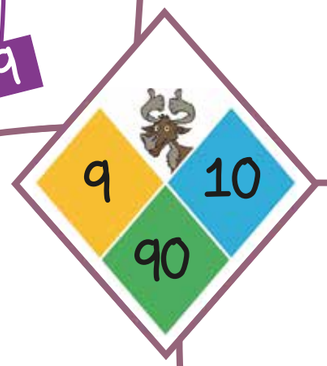
groups



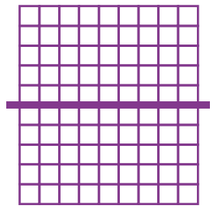
number line

scaling

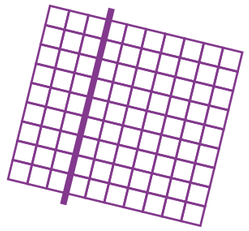




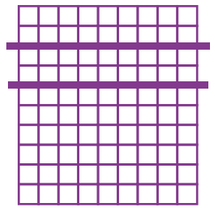
Dissect it



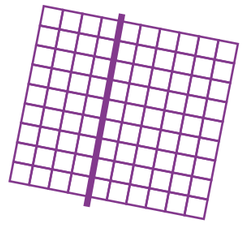
$9 \times 10 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$



$9 \times 10 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$



$9 \times 10 = 9 \times \square + 9 \times \square + 9 \times \square$
$= \square + \square + \square$
$= \square$



$9 \times 10 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$

If I know $9 \times 10 = 90$ then I also know...

$\square \times \square = 90$

$90 = \square \times \square$

$90 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 10$

$9000 = \square \times 10$

$10 = \square \div 90$

$\square \times 9 = 9000$

$\frac{1}{9}$ of $\square = 100$

$900 \div 90 = 10$
True or false?

Each packet of sweets weighs 90g. How much do ten packets weigh?

Each jug holds 900ml of milk. How many jugs can be filled with 90 litres of milk?

A bad golfer takes 10 shots at **each** hole of a nine hole golf course. How many shots does he take **in total**?

9000 spectators are equally divided into 9 areas in a stadium. How many are in **each** area?

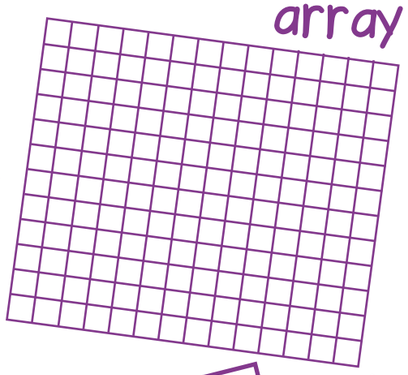
Derive it

Deepen it

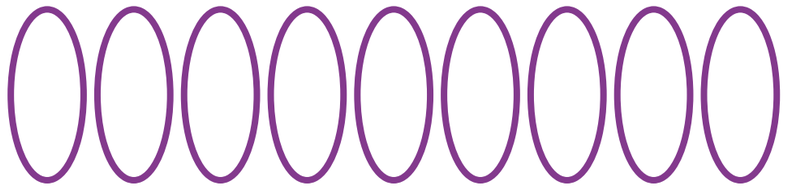
Draw it

bar

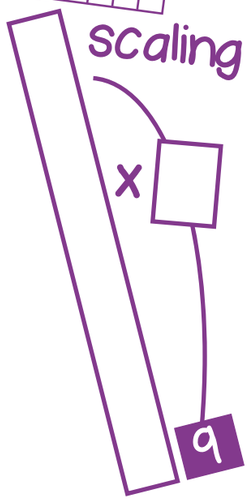
array



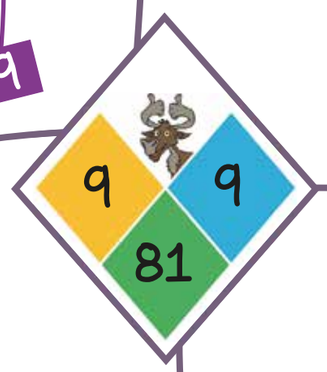
groups



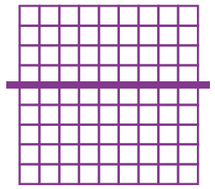
scaling



number line



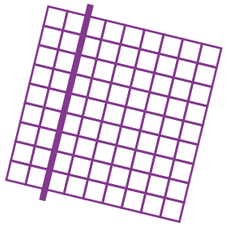
Dissect it



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

$= \square + \square$

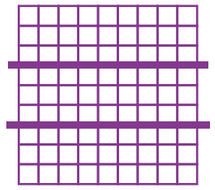
$= \square$



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

$= \square + \square$

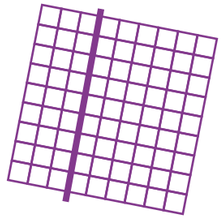
$= \square$



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

$= \square + \square + \square$

$= \square$



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

$= \square + \square$

$= \square$

If I know 9 x 9 = 81 then I also know...

$\square \times \square = 81$

$90 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 9$

$8100 = \square \times 9$

$9 = \square \div 90$

$\square \times 9 = 8100$

$\frac{1}{9}$ of $\square = 90$

$90 \div 81 = 90$

True or false?

Nine children **each** read nine books. How many books have they read **altogether**?

A large paved area has 90 rows of 90 slabs. How many slabs are there **in total**?

Nine equal bags of apples weigh a **total** of 8100g. What is the weight of **each** bag?

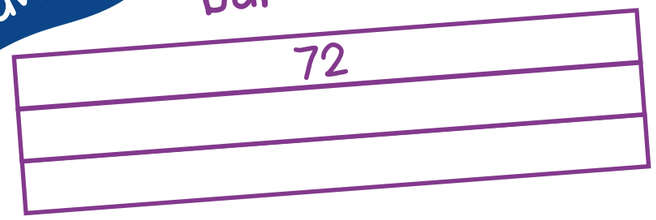
From winnings of £810, £90 is given to each winner. How many winners are there?

Derive it

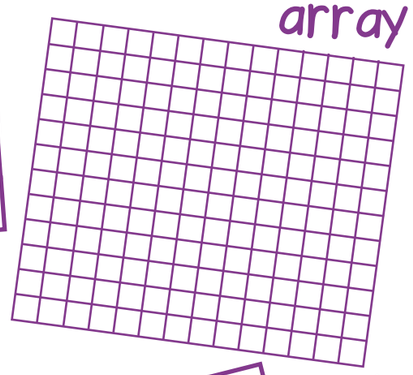
Deepen it

Draw it

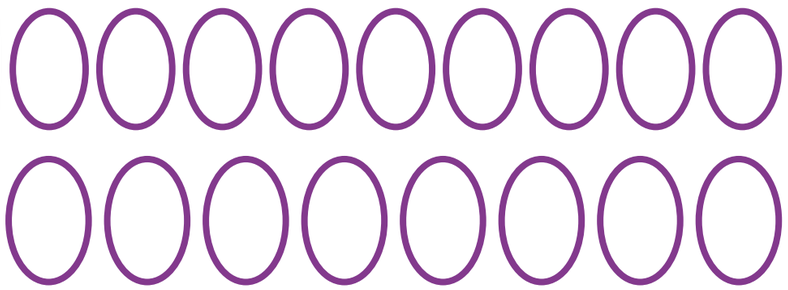
bar



array

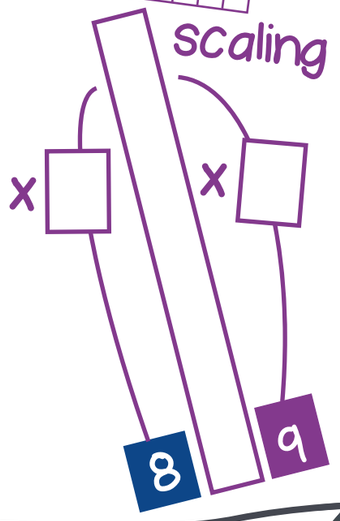


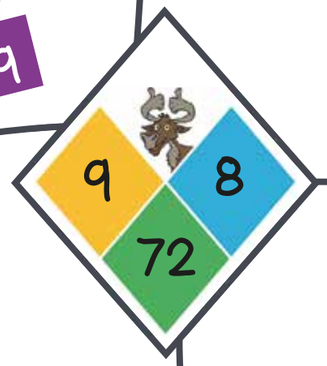
groups



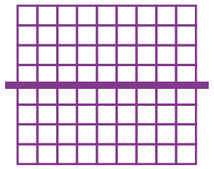
number line

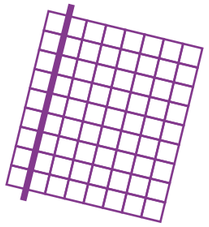
scaling

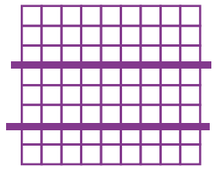


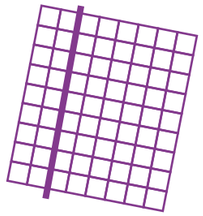


Dissect it









$9 \times 8 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$

$9 \times 8 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$

$9 \times 8 = 9 \times \square + 9 \times \square + 9 \times \square$
$= \square + \square + \square$
$= \square$

$9 \times 8 = 9 \times \square + 9 \times \square$
$= \square + \square$
$= \square$

If I know $9 \times 8 = 72$ then I also know...

$\square \times \square = 72$

$72 = \square \times \square$

$72 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 8$

$7200 = \square \times 80$

$80 = \square \div 9$

$\square \times 9 = 7200$

$\frac{1}{9}$ of $\square = 80$

$8 \div 72 = 9$
True or false?

How many sides are there **in total** on nine octagons?

A manager spends £7200 on nine days at the races. Each day costs the same. How much does **each** day cost?

How many degrees are there **altogether** in eight right angles?

720ml of juice is poured equally into nine small glasses. How much juice is poured into **each** glass?

Derive it

Deepen it

Draw it

bar

63

array

groups

○○○○○○○○○
○○○○○○○○

number line

0 63

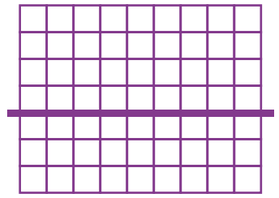
scaling

x ☐ 7

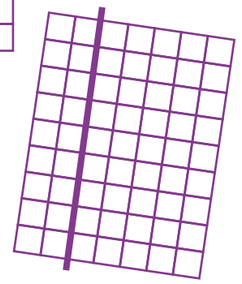
x ☐ 9

9 7 63

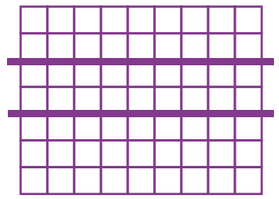
Dissect it



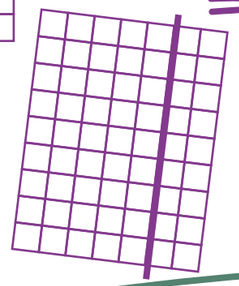
9 x 7 = 9 x ☐ + 9 x ☐
= ☐ + ☐
= ☐



9 x 7 = 9 x ☐ + 9 x ☐
= ☐ + ☐
= ☐



9 x 7 = 9 x ☐ + 9 x ☐ + 9 x ☐
= ☐ + ☐ + ☐
= ☐



9 x 7 = 9 x ☐ + 9 x ☐
= ☐ + ☐
= ☐

If I know 9 x 7 = 63 then I also know...

☐ x ☐ = 63

63 = ☐ x ☐

63 = ☐ x ☐

☐ ÷ ☐ = ☐

☐ = ☐ ÷ ☐

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

90 = ☐ ÷ 7

6300 = ☐ x 70

70 = ☐ ÷ 9

☐ x 9 = 6300

$\frac{1}{9}$ of ☐ = 70

630 ÷ 7 = 90
True or false?

Diane jogs 9km **each** day for a week. How far does she jog **altogether**?

Vinnie saves £6300 in 9 months, by saving the same amount **each** month. How much does he save **each** month?

Pat swims for 90 minutes **each** day. For how many minutes does she swim in a week?

Esther pays £630 for match tickets that cost £90 **each**. How many tickets did she buy?

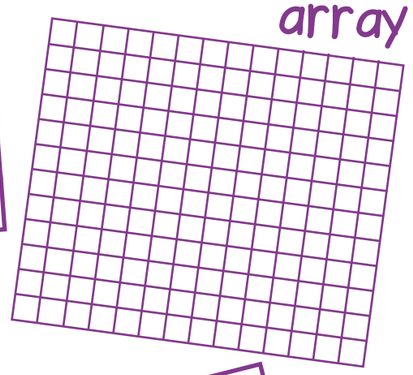
Derive it

Deepen it

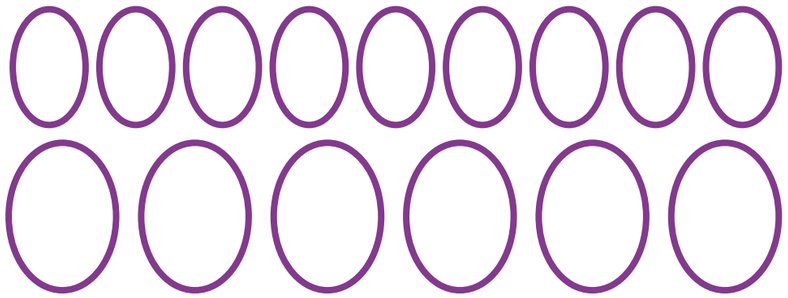
Draw it

bar

array

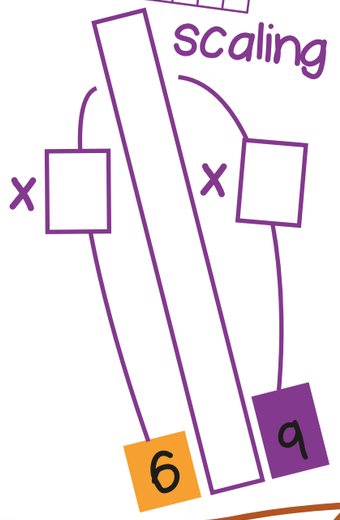


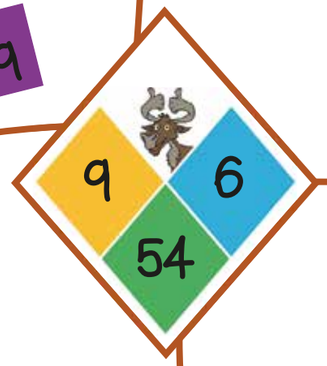
groups



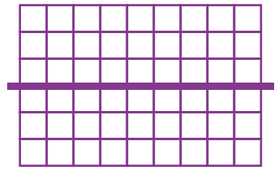
number line

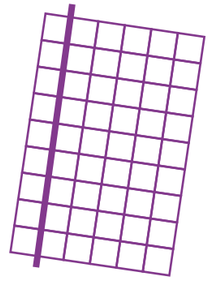
scaling

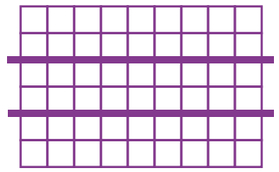


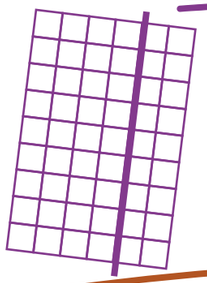


Dissect it









$9 \times 6 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

$9 \times 6 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

$9 \times 6 = 9 \times \square + 9 \times \square + 9 \times \square$

$= \square + \square + \square$

$= \square$

$9 \times 6 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

If I know 9 x 6 = 54 then I also know...

$\square \times \square = 54$

$54 = \square \times \square$

$54 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 6$

$5400 = \square \times 60$

$60 = \square \div 9$

$\square \times 9 = 5400$

$\frac{1}{9}$ of $\square = 6$

70 x 60 = 540
True or false?

Each dining chair costs £90. How much would 6 chairs cost?

How many minutes are there in 90 hours?

The perimeter of a hexagon is 540mm. If all the sides are equal, how long is **each** side?

A van travels a **total** of 5400km in 9 equal trips. How long is **each** trip?

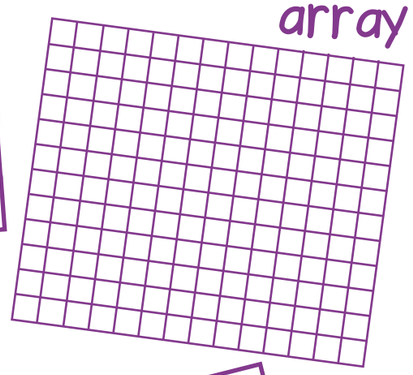
Derive it

Deepen it

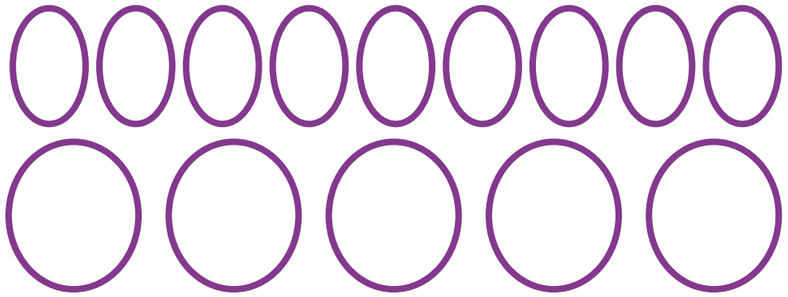
Draw it

bar

array

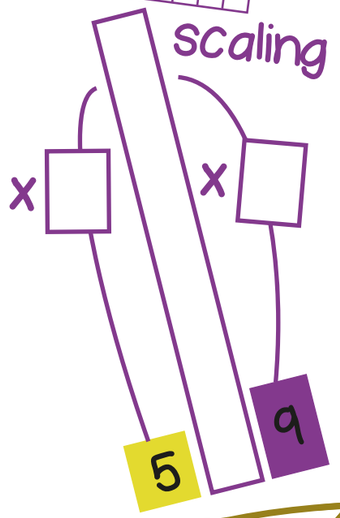


groups

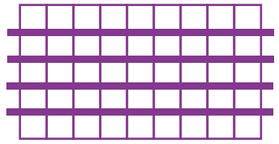


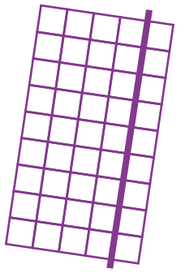
number line

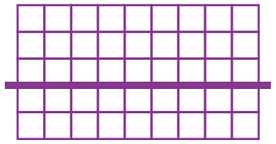
scaling

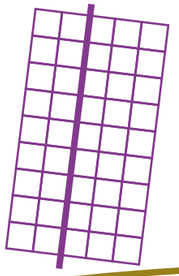


Dissect it









$9 \times 5 = 9 + \square + 9 + \square + \square$

$= \square$

$9 \times 5 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

$9 \times 5 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

$9 \times 5 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

If I know 9 x 5 = 45 then I also know...

$\square \times \square = 45$

$45 = \square \times \square$

$45 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 5$

$4500 = \square \times 50$

$50 = \square \div 9$

$\square \times 9 = 4500$

$\frac{1}{9}$ of $\square = 50$

True or false?
9 x 5 = half of 9 x 10

Elin has nine 50p coins. How much money does she have **in total**?

If **each** side of a pentagon is 90mm, what is the perimeter of the pentagon?

How many times can a 5 litre bucket be filled from a 450 litre barrel of water?

A carpenter earns £50 for each box he makes. How many boxes must be made to earn £4500?

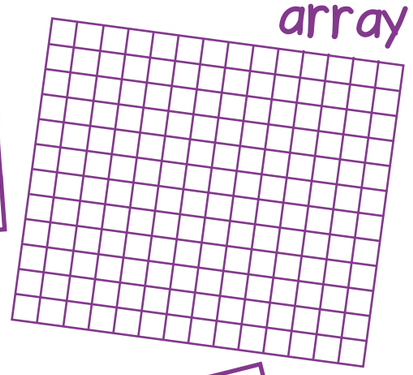
Derive it

Deepen it

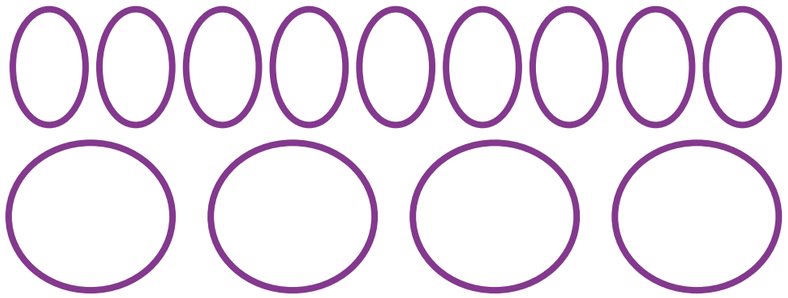
Draw it

bar

array

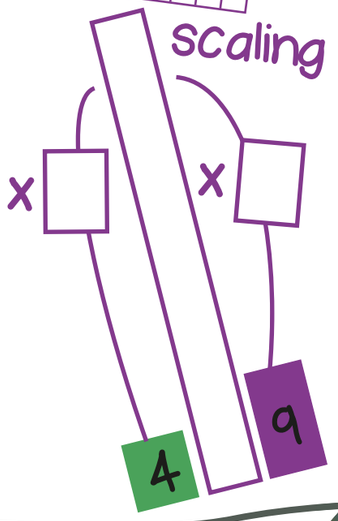


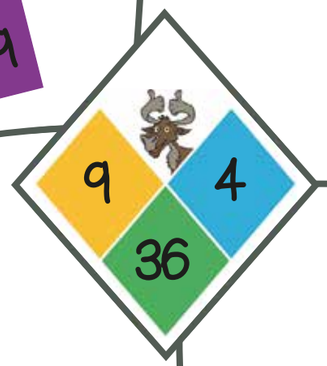
groups



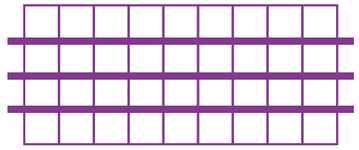
number line

scaling





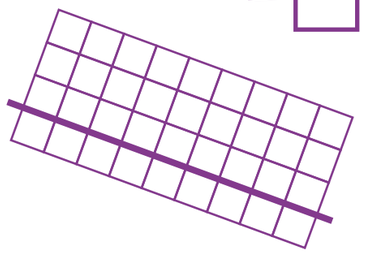
Dissect it



$9 \times 4 = 9 + \square + 9 + \square$

$= \square + \square$

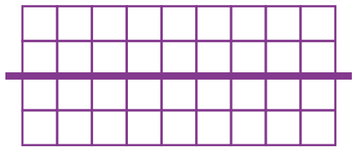
$= \square$



$9 \times 4 = 9 \times \square + 9 \times \square$

$= \square + \square$

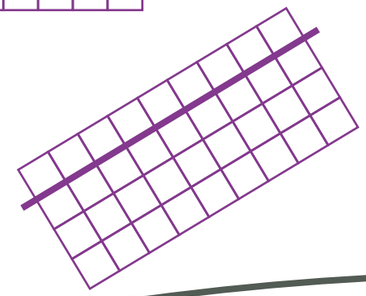
$= \square$



$9 \times 4 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$



$9 \times 4 = 9 \times \square + 9 \times \square$

$= \square + \square$

$= \square$

If I know $9 \times 4 = 36$ 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 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 4$

$360 = \square \times 40$

$4 = \square \div 90$

$\square \times 9 = 3600$

$\frac{1}{9}$ of $\square = 40$

There are 90 sheep in a flock. How many sheep's legs are there?

A square has 4 right angles. How many degrees is that **in total?**

9 builders split their £3600 earnings equally. How much do they earn **each**?

Fred plays football for the same amount of time **each** day for 9 days. He plays for 360 minutes **in total**. How long does he play **each** day?

True or false?

$9 \times 4 = 4 + 4 + 4 + 4$

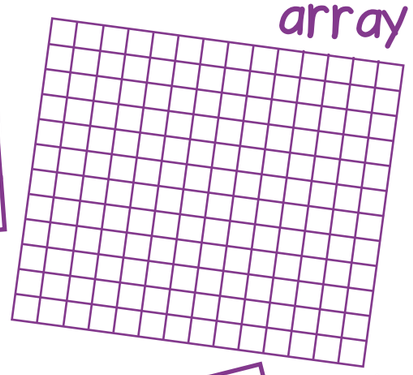
Derive it

Deepen it

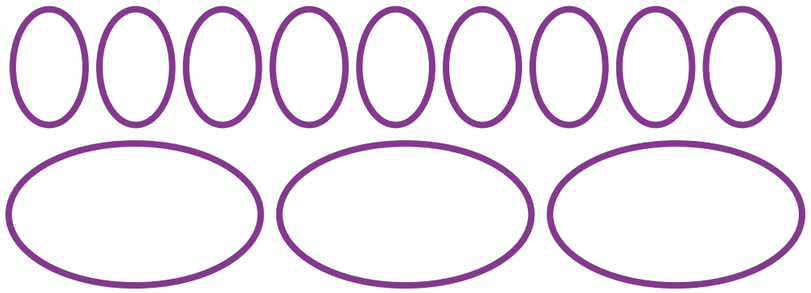
Draw it

bar

array

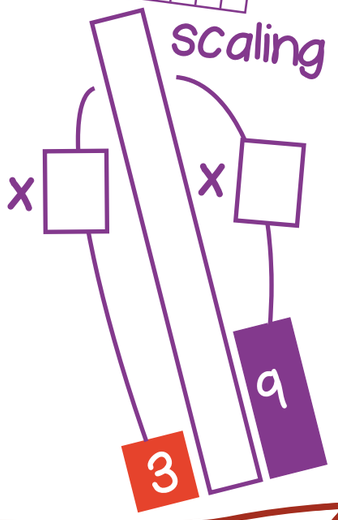


groups

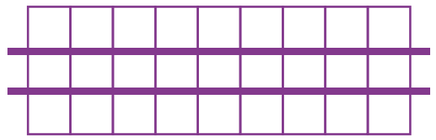


number line

scaling

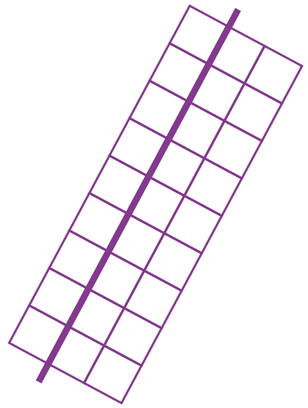


Dissect it



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

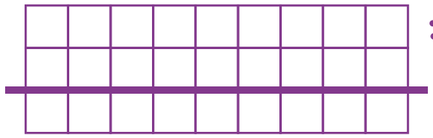
$= \square$



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

$= \square + \square$

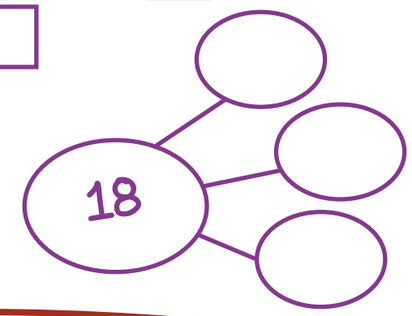
$= \square$



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

$= \square + \square$

$= \square$



If I know $9 \times 3 = 27$ 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 9 is __ each

__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

$90 = \square \div 3$

$2700 = \square \times 300$

$3 = \square \div 90$

$\square \times 9 = 270$

$\frac{1}{9}$ of $\square = 30$

$270 \div 90 = 30$

True or false?

Each side of a triangle is 90mm. What is the perimeter of the triangle?

A class of 30 children go on a school trip. The **total** cost is £270. How much does it cost **each** child?

If you turn through three right angles, how many degrees have you turned through **altogether**?

9 musicians equally share the £2700 they earned. How much do they receive **each**?

Derive it

Deepen it

Draw it

bar

18

array

groups

number line

0 18

scaling

x x 9 2

If I know 9 x 2 = 18 then I also know...

□ x □ = 18

18 = □ x □

18 = □ x □

□ ÷ □ = □

□ = □ ÷ □

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 9 is __each

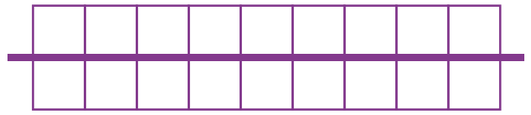
__ put into groups of 9 is __ groups of 9

__ and __ are factors of __

__ is a multiple of __ and __

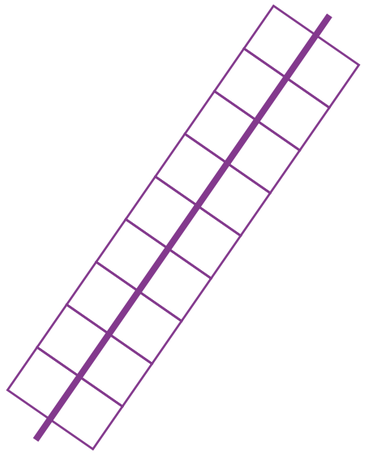
Derive it

Dissect it



9 x 2 = 9 + □

= □

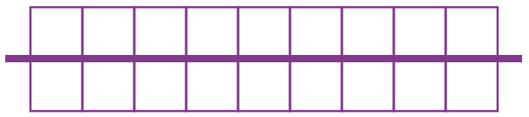


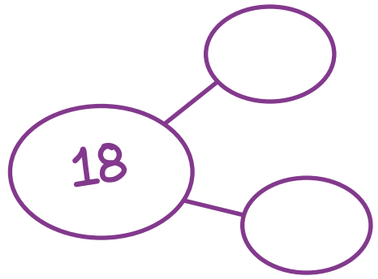
9 x 2 = 9 x □ + 9 x □

= □ + □

= □

Double 9 = □





9 2 18

90 = □ ÷ 2

180 = □ x 20

2 = □ ÷ 90

□ x 9 = 1800

$\frac{1}{9}$ of □ = 20

180 ÷ 9 = 20

True or false?

Norman has collected ninety £2 coins. How much money is that?

Sacks of dog food weigh 20kg **each**. A store contains 1800kg of food. How many sacks are there **in total**?

How many degrees are there in two right angles?

Each child's jacket is decorated with 20 buttons. If 180 buttons have been used, how many jackets have been decorated?

Deepen it