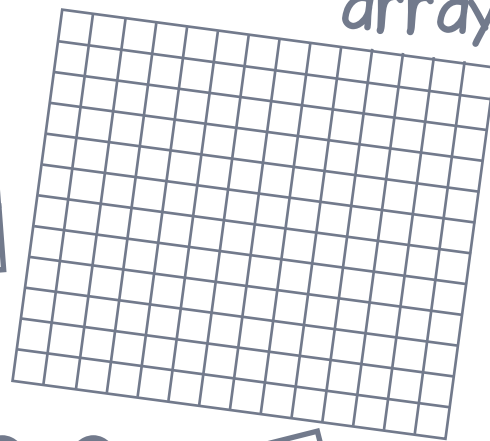


Draw it

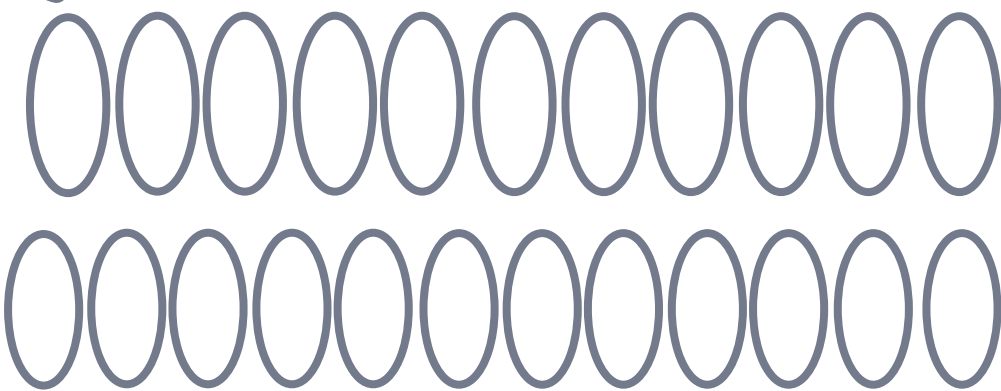
bar



array



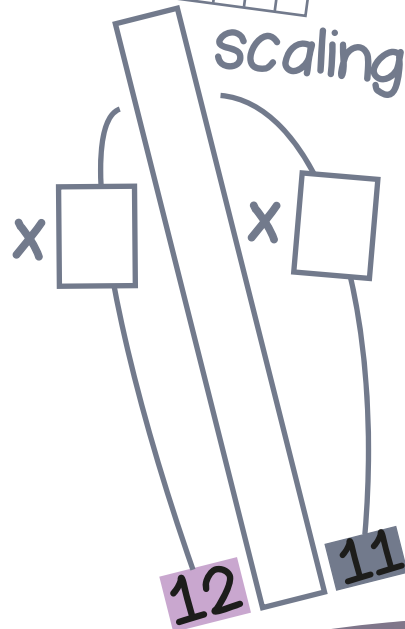
groups



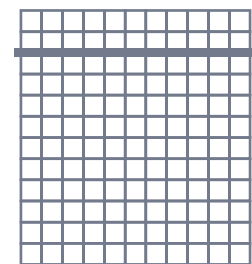
number line



scaling



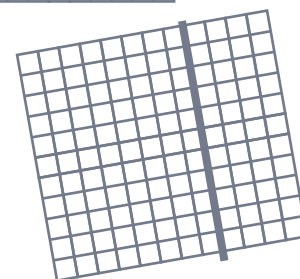
Dissect it



$$11 \times 12 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

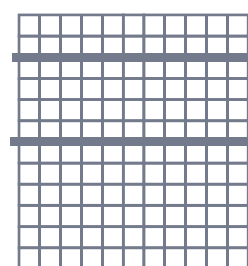
$$= \square$$



$$11 \times 12 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

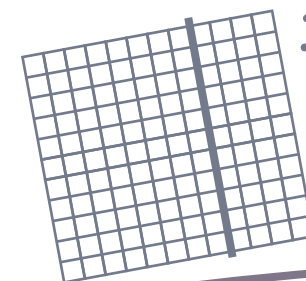
$$= \square$$



$$11 \times 12 = 11 \times \square + 11 \times \square + 11 \times \square$$

$$= \square + \square + \square$$

$$= \square$$



$$11 \times 12 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 12 = 132$ then I also know...

$$\square \times \square = 132$$

$$132 = \square \times \square$$

$$132 = \square \times \square$$

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

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

— multiplied by — is —

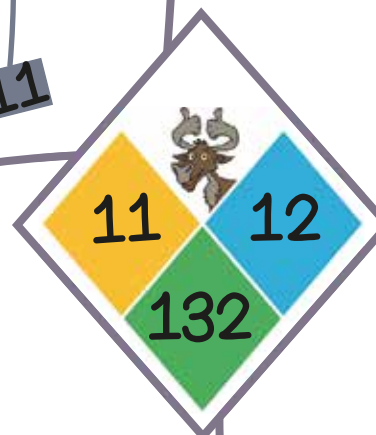
— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$110 = \square \div 12$$

$$13,200 = \square \times 12$$

$$12 = \square \div 110$$

$$\square \times 11 = 1320$$

$$\frac{1}{11} \text{ of } \square = 12$$

Gary saves £1320 in a year. He saves the same amount each month. What does he save each month?

One chewy bar costs £1.10. How much do twelve bars cost?

132 bulbs are planted, 11 in a row. How many rows can be made?

A cleaner earns £1100 per month. How much does he earn in a year?



True or false?

11×12 is double 11×6

Derive it

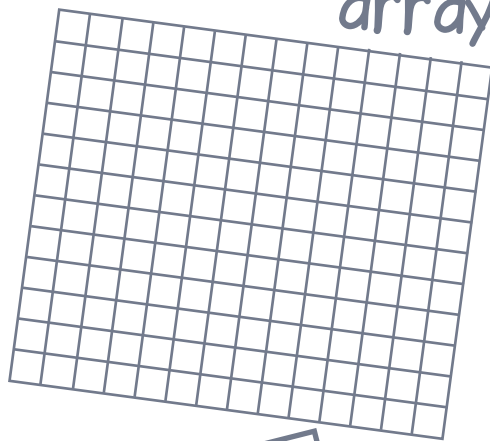
Deepen it

Draw it

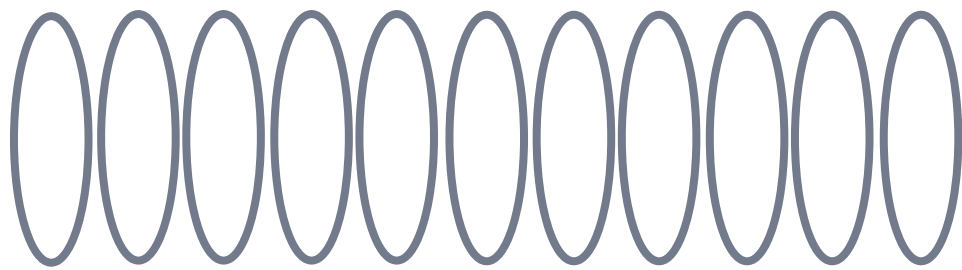
bar



array



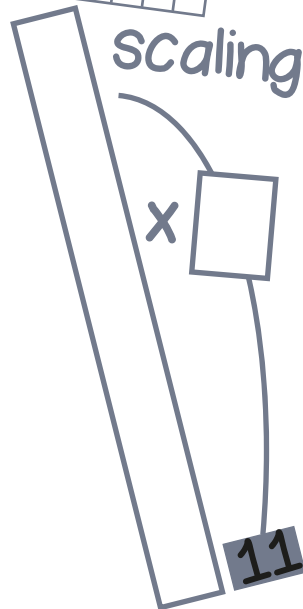
groups



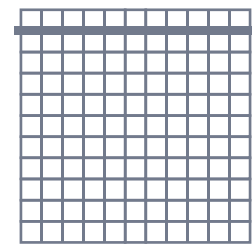
number line



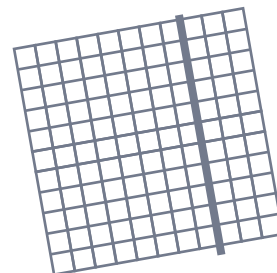
scaling



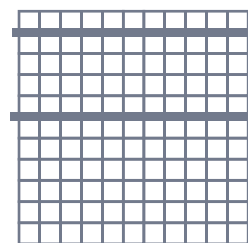
Dissect it



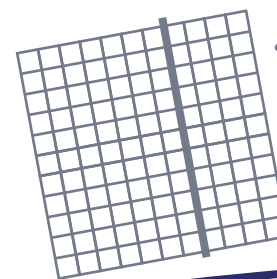
$$\begin{aligned} 11 \times 11 &= 11 \times \square + 11 \times \square \\ &= \square + \square \\ &= \square \end{aligned}$$



$$\begin{aligned} 11 \times 11 &= 11 \times \square + 11 \times \square \\ &= \square + \square \\ &= \square \end{aligned}$$



$$\begin{aligned} 11 \times 11 &= 11 \times \square + 11 \times \square + 11 \times \square \\ &= \square + \square + \square \\ &= \square \end{aligned}$$



$$\begin{aligned} 11 \times 11 &= 11 \times \square + 11 \times \square \\ &= \square + \square \\ &= \square \end{aligned}$$



If I know $11 \times 11 = 121$ then I also know...

$$\square \times \square = 121$$

___ multiplied by ___ is ___

$$121 = \square \times \square$$

___ groups of ___ is ___

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

___ shared equally between 11 is ___ each

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

___ put into groups of 11 is ___ groups of 11

___ is a factor of ___

___ is a multiple of ___



$$110 = \square \div 11$$

$$12,100 = \square \times 11$$

$$11 = \square \div 110$$

$$\square \times 11 = 1210$$

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

How many players are there in total in eleven teams of 11 players?

Ernie spent £12.10 on eleven bars of chocolate. How much did **each** bar cost?

Eleven road sweepers are paid £1100 each. How much is paid in total?

A scarf has 121 stripes. There are 11 stripes in each colour. How many colours are there?



True or false?

$$11 \times 11 = 11 \times 10 + 11$$

Derive it

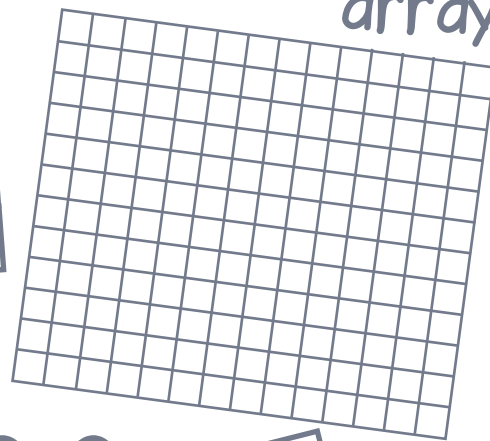
Deepen it

Draw it

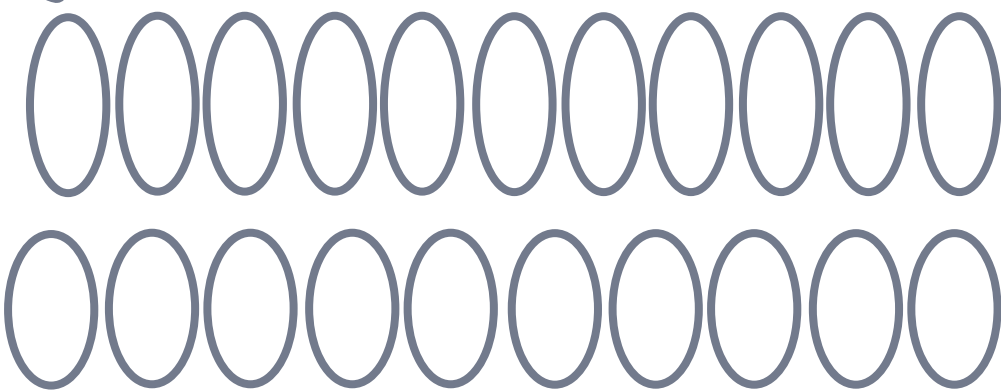
bar



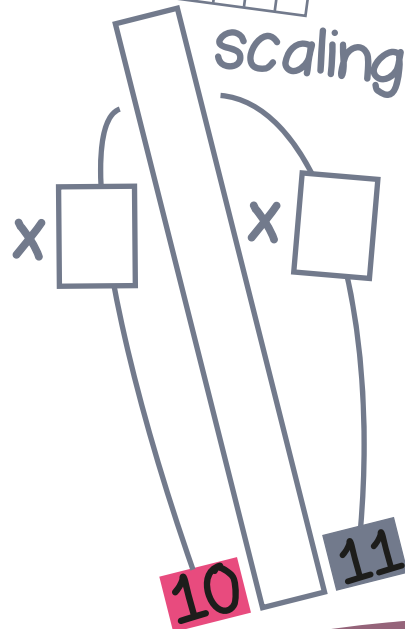
array



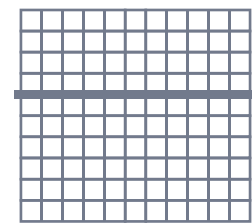
groups



number line



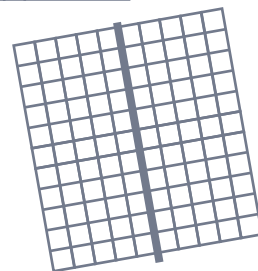
Dissect it



$$11 \times 10 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

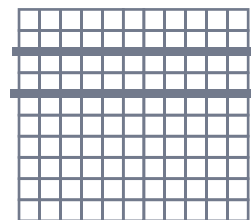
$$= \square$$



$$11 \times 10 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

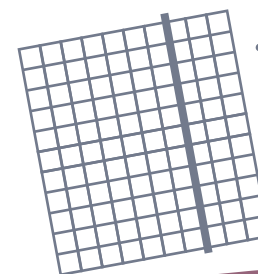
$$= \square$$



$$11 \times 10 = 11 \times \square + 11 \times \square + 11 \times \square$$

$$= \square + \square + \square$$

$$= \square$$



$$11 \times 10 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 10 = 110$ then I also know...

$$\square \times \square = 110$$

$$110 = \square \times \square$$

$$110 = \square \times \square$$

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

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

— multiplied by — is —

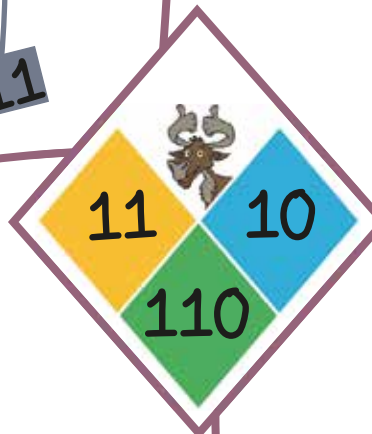
— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$100 = \square \div 11$$

$$11,000 = \square \times 11$$

$$11 = \square \div 10$$

$$\square \times 11 = 1100$$

$$\frac{1}{11} \text{ of } \square = 10$$

Rachel feeds eleven 10p coins into a parking machine. How much has she paid in total?

Eleven spoonfuls of vanilla flavour are used in a recipe. 110ml of vanilla is used altogether. How much does each spoonful hold?

A cycle shop stocks Bikes that cost £110 each. They sell 100 of them. How much money do they take?

How many £11 books can be bought for £110?



True or false?
 11×10 is double 11×5

Derive it

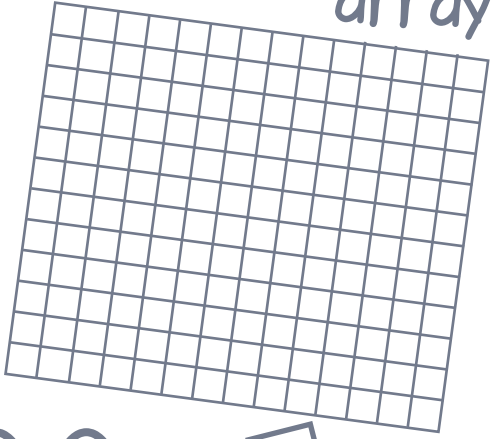
Deepen it

Draw it

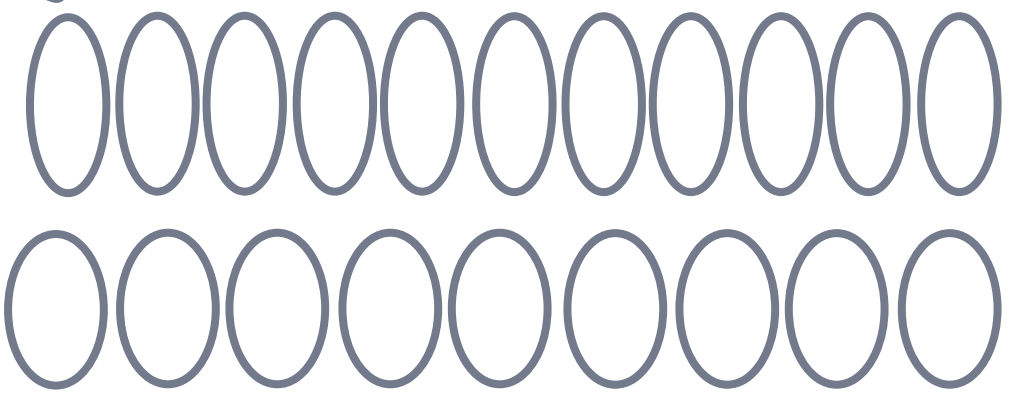
bar



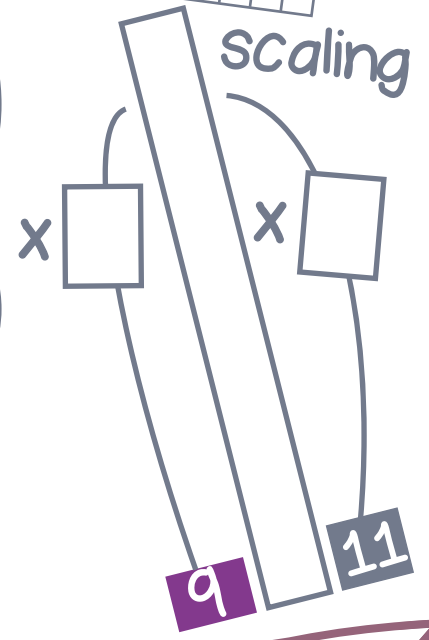
array



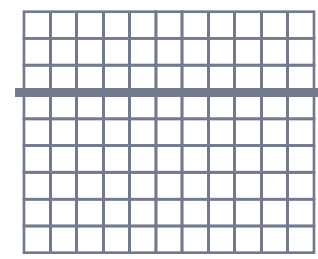
groups



number line



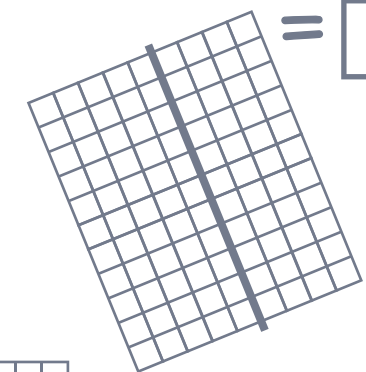
Dissect it



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

$$= \square + \square$$

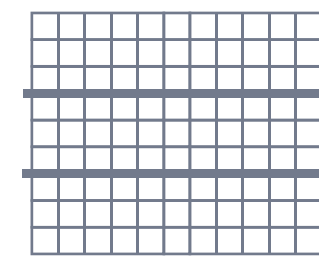
$$= \square$$



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

$$= \square + \square$$

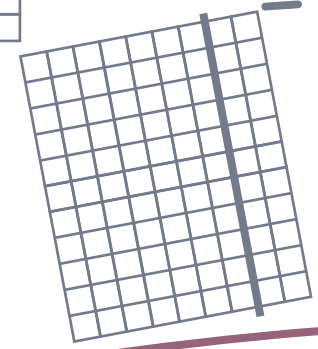
$$= \square$$



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

$$= \square + \square + \square$$

$$= \square$$



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

$$= \square + \square$$

$$= \square$$



If I know $11 \times 9 = 99$ 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 11 is __ each

__ put into groups of 11 is __ groups of 11

__ and __ are factors of __

__ is a multiple of __ and __



$$90 = \square \div 11$$

$$99,000 = \square \times 11$$

$$11 = \square \div 9$$

$$\square \times 11 = 9900$$

$$\frac{1}{11} \text{ of } \square = 9$$



True or false?
 $990 \div 11 = 90$

Ian saves £90 per month. How long does it take him to save £990?

In a tournament there are 9 teams of 11 players. How many players are there **in total**?

A grocer splits 99kg of potatoes into 11 equal bags. What does **each** bag of potatoes weigh?

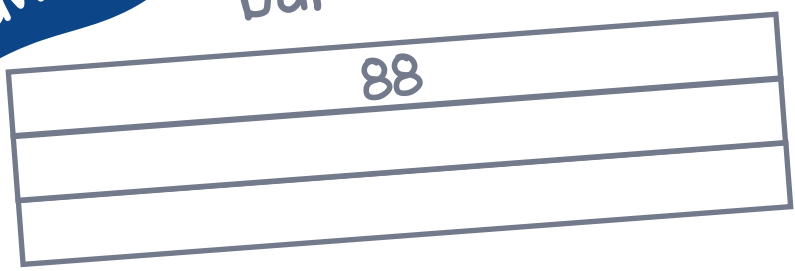
A delivery route is 110km. After completing the route nine times, how far has the delivery van travelled?

Derive it

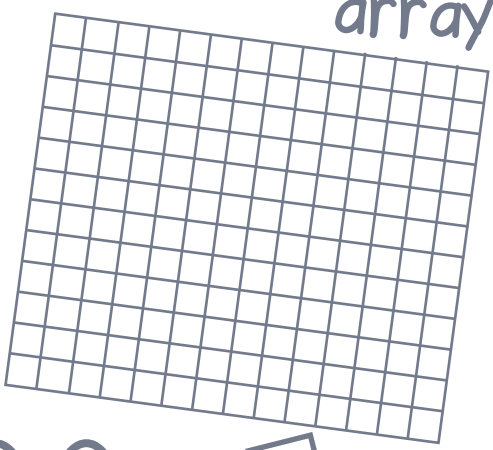
Deepen it

Draw it

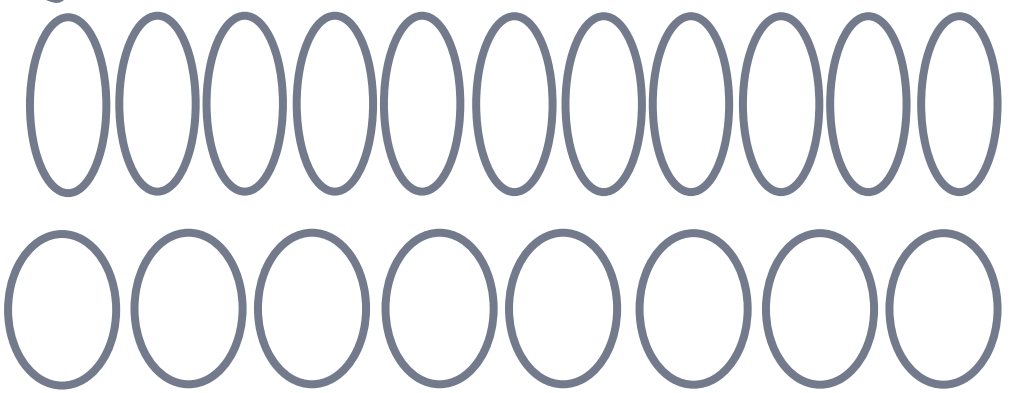
bar



array



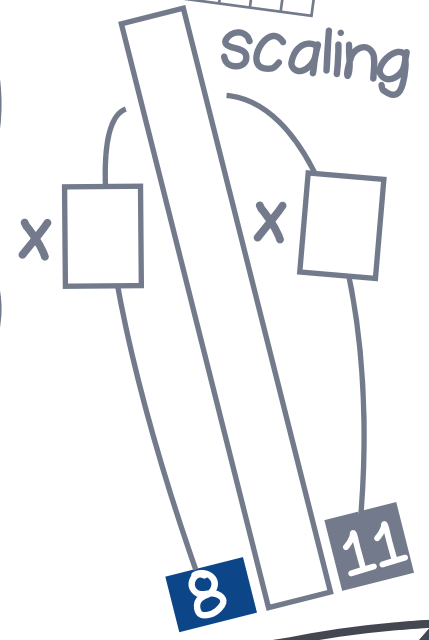
groups



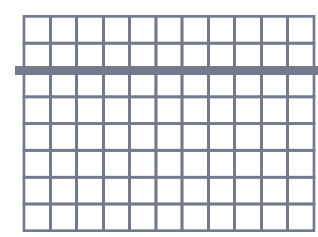
number line



scaling



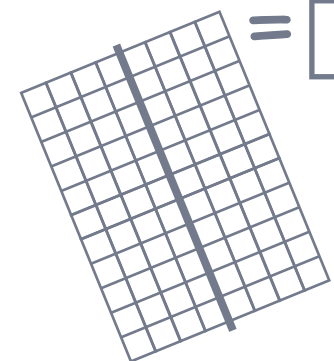
Dissect it



$$11 \times 8 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

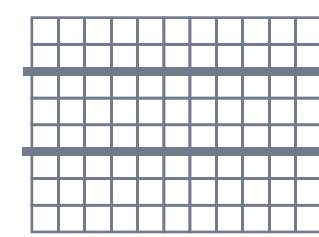
$$= \square$$



$$11 \times 8 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

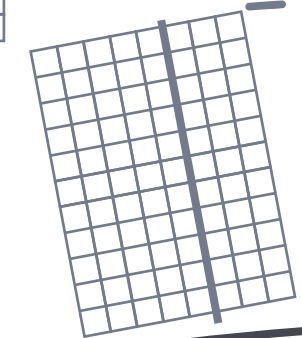
$$= \square$$



$$11 \times 8 = 11 \times \square + 11 \times \square + 11 \times \square$$

$$= \square + \square + \square$$

$$= \square$$



$$11 \times 8 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 8 = 88$ then I also know...

$$\square \times \square = 88$$

$$88 = \square \times \square$$

$$88 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$80 = \square \div 11$$

$$88,000 = \square \times 11$$

$$11 = \square \div 8$$

$$\square \times 11 = 8800$$

$$\frac{1}{11} \text{ of } \square = 8$$



True or false?
 $880 \div 11 = 80$

A hockey team divide their £880 winnings equally between 11 players. How much do they get **each**?

How many straight sides are needed to draw 11 octagons?

Bags of potatoes **each** weigh 8kg. There are 880kg of potatoes **in total**. How many bags are there?

Chewy bars **each** cost £1.10. How much would 8 bars cost **altogether**?

Derive it

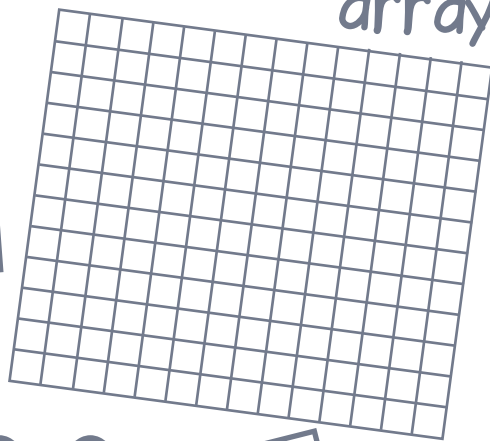
Deepen it

Draw it

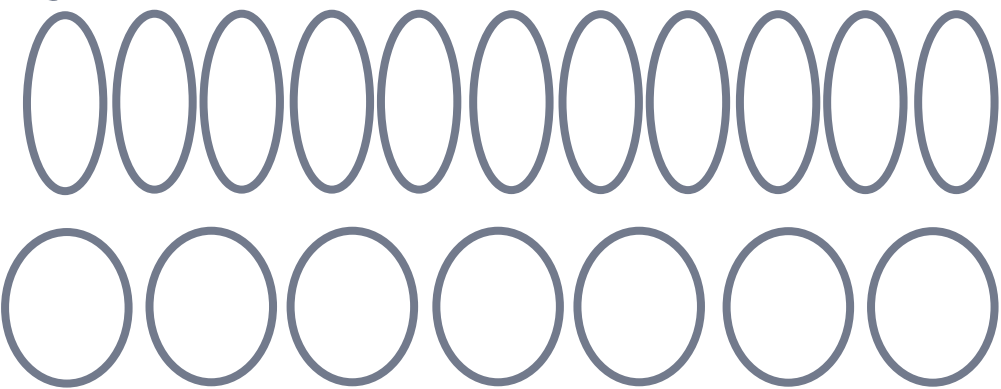
bar



array



groups

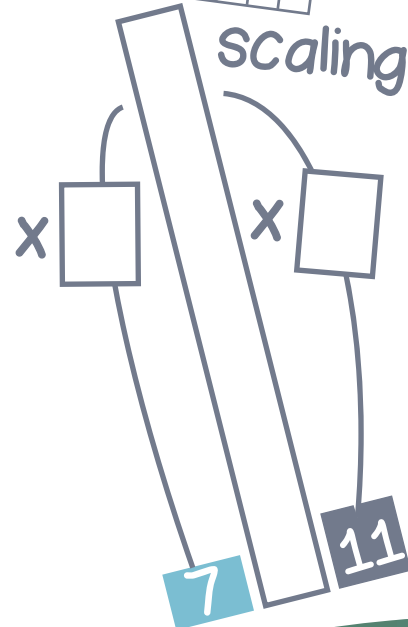


number line

0

77

scaling



Dissect it

$$11 \times 7 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$

$$11 \times 7 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$

$$11 \times 7 = 11 \times \square + 11 \times \square + 11 \times \square$$

$$= \square + \square + \square$$

$$= \square$$

$$11 \times 7 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 7 = 77$ then I also know...

$$\square \times \square = 77$$

$$77 = \square \times \square$$

$$77 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$70 = \square \div 11$$

$$77,000 = \square \times 11$$

$$11 = \square \div 70$$

$$\square \times 11 = 770$$

$$\frac{1}{11} \text{ of } \square = 70$$



$70 \div 770 = 110$
True or false?

Walt jogs 11km **each** day. How far does he jog in a week?

Each minibus carries 11 people. How many minibuses are needed to carry 77 people?

Each packet of seeds weighs 110g. What will 70 packets of seeds weigh **altogether**?

In a stadium, 7700 people fill 70 rows of seats. How many seats are there in **each** row?

Derive it

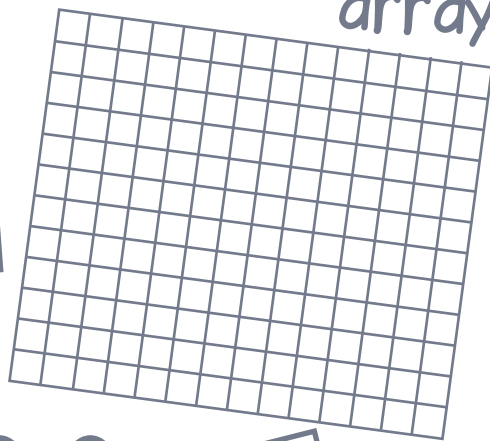
Deepen it

Draw it

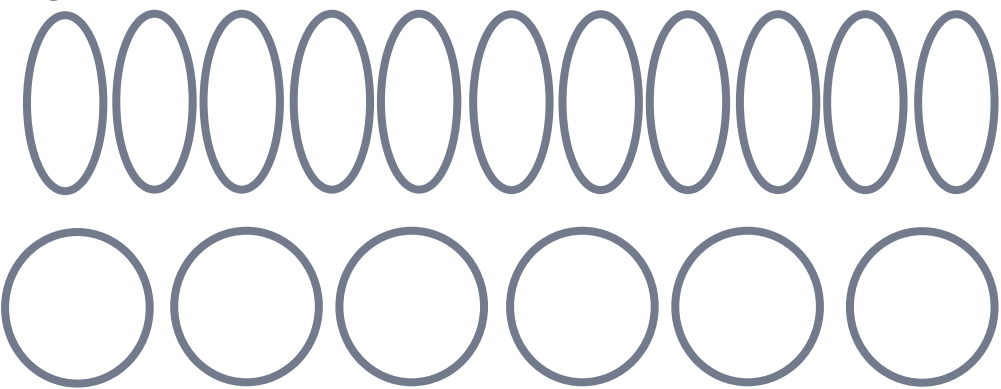
bar



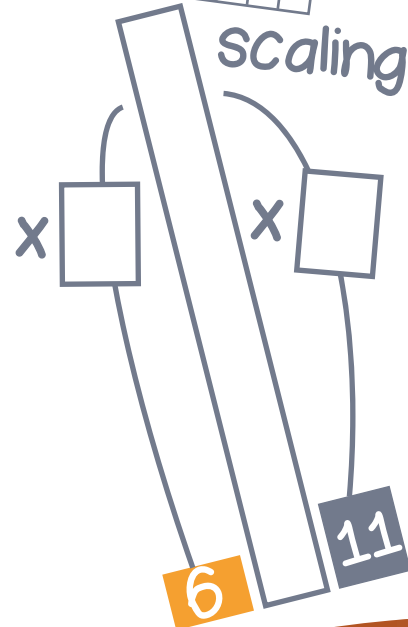
array



groups



number line

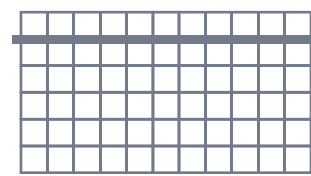


Dissect it

$$11 \times 6 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

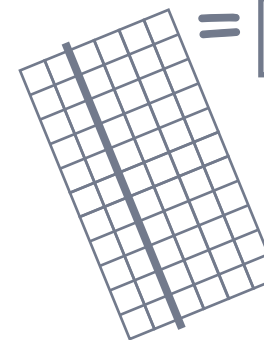
$$= \square$$



$$11 \times 6 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

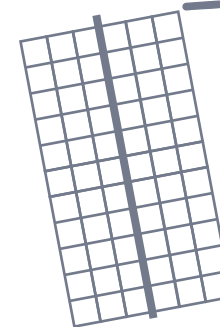
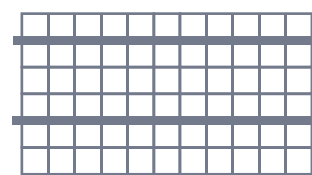
$$= \square$$



$$11 \times 6 = 11 \times \square + 11 \times \square + 11 \times \square$$

$$= \square + \square + \square$$

$$= \square$$



$$11 \times 6 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 6 = 66$ then I also know...

$$\square \times \square = 66$$

$$66 = \square \times \square$$

$$66 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$60 = \square \div 11$$

$$6600 = \square \times 11$$

$$11 = \square \div 60$$

$$\square \times 11 = 660$$

$$\frac{1}{11} \text{ of } \square = 60$$



$660 \div 6 = 110$
True or false?

How many straight sides are drawn in total to draw 11 hexagons?

Sal saves £60 per week. How long will it take her to save £660?

Ricky spends £6.60 on bars that cost £1.10 each. How many does he buy?

Watches cost £110 each. A jeweler sells 60 watches in a year. How much money does he take?

Derive it

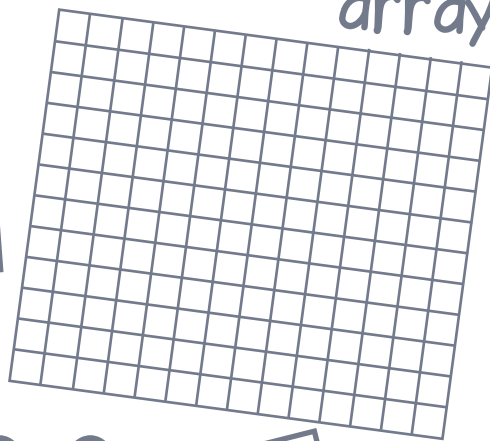
Deepen it

Draw it

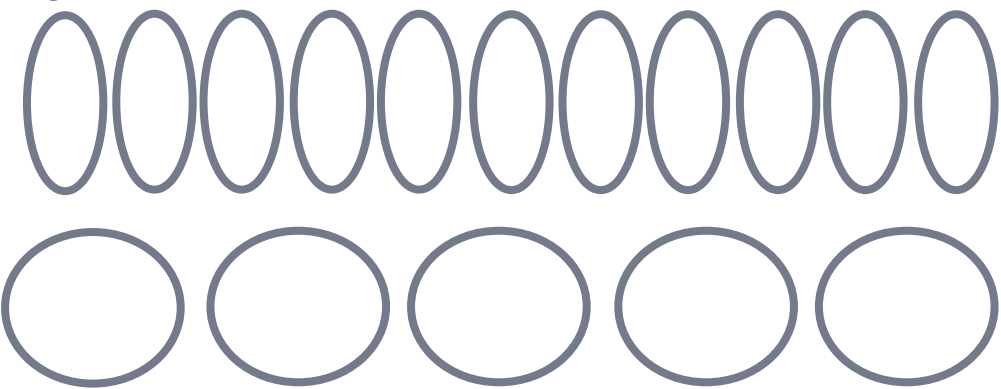
bar



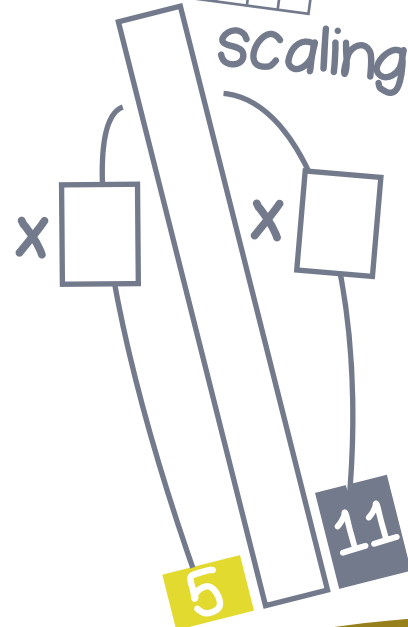
array



groups



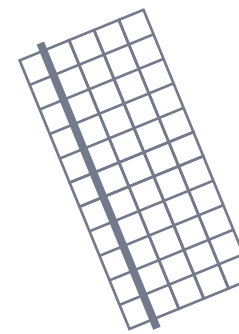
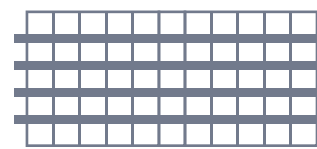
number line



Dissect it

$$11 \times 5 = 11 + \square + 11 + \square + \square$$

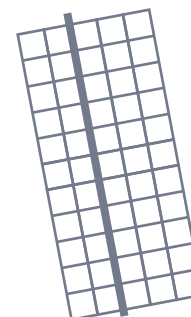
$$= \square$$



$$11 \times 5 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



$$11 \times 5 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$

$$11 \times 5 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



If I know $11 \times 5 = 55$ then I also know...

$$\square \times \square = 55$$

$$55 = \square \times \square$$

$$55 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —

110 sacks of horse food weigh a **total** of 5500kg. How much does **each** sack weigh?

Each of the 11 footballers puts £5 towards the trainer's present. How much do they have to spend **in total**?

Tom takes 5 minutes to iron **each** shirt. How long will it take him to iron 11 shirts?

Min spent £5.50 on eleven sweets. How much did they **each** cost?

$$50 = \square \div 11$$

$$5500 = \square \times 11$$

$$11 = \square \div 50$$

$$\square \times 11 = 550$$

$$\frac{1}{11} \text{ of } \square = 50$$



True or false?

$$5 \times 11 = \text{half of } 10 \times 11$$

Derive it

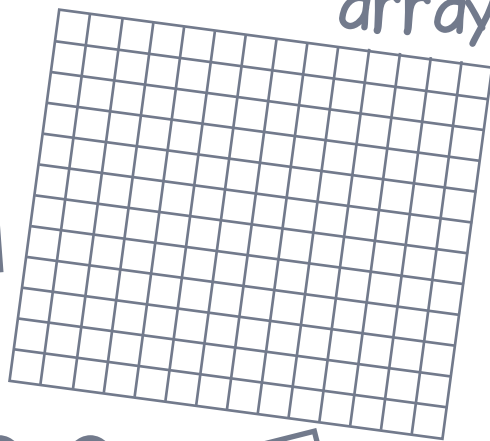
Deepen it

Draw it

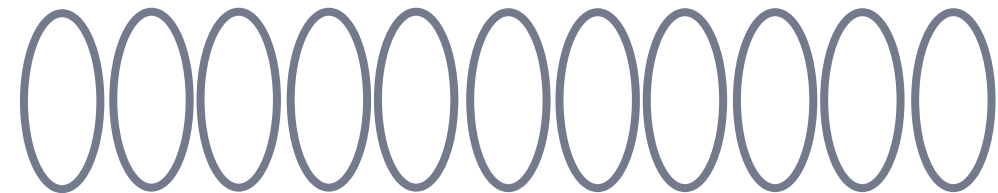
bar



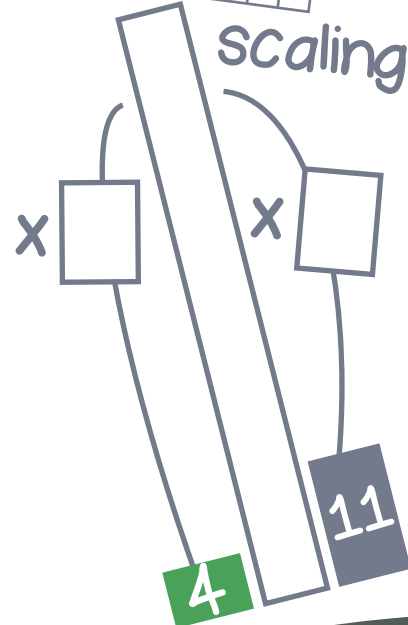
array



groups



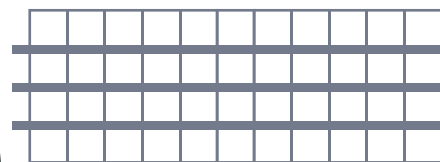
scaling



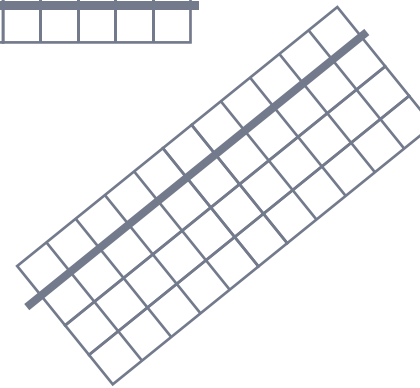
number line



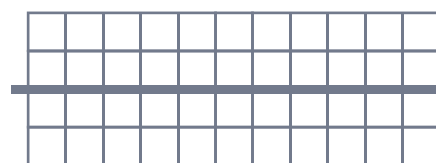
Dissect it



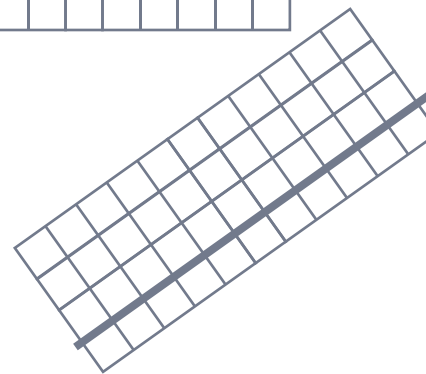
$$11 \times 4 = 11 + \square + 11 + \square = \square$$



$$11 \times 4 = 11 \times \square + 11 \times \square = \square + \square = \square$$



$$11 \times 4 = 11 \times \square + 11 \times \square = \square + \square = \square$$



$$11 \times 4 = 11 \times \square + 11 \times \square = \square + \square = \square$$



If I know $11 \times 4 = 44$ then I also know...

$$\square \times \square = 44$$

$$44 = \square \times \square$$

$$44 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$40 = \square \div 11$$

$$4400 = \square \times 11$$

$$11 = \square \div 40$$

$$\square \times 11 = 4400$$

$$\frac{1}{11} \text{ of } \square = 40$$

There are 440 cows' legs in a field! How many cows are there?

Sarah buys four chewy bars that cost £1.10 **each**. What is the **total** cost?

11 hockey players share the cost of hiring a pitch for £440. How much do they **each** pay?

Each bag of apples weighs 4kg. How much do 11 bags weigh **altogether**?



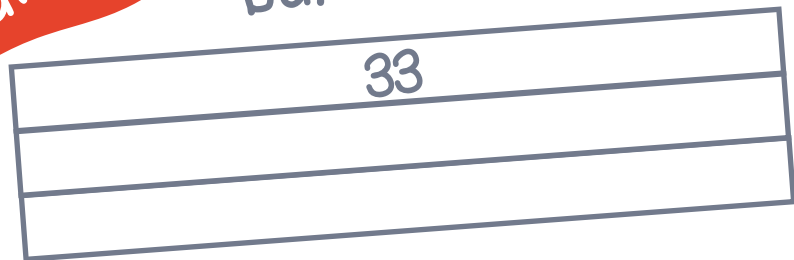
$4 \times 11 = \text{double } 2 \times 11$
True or false?

Derive it

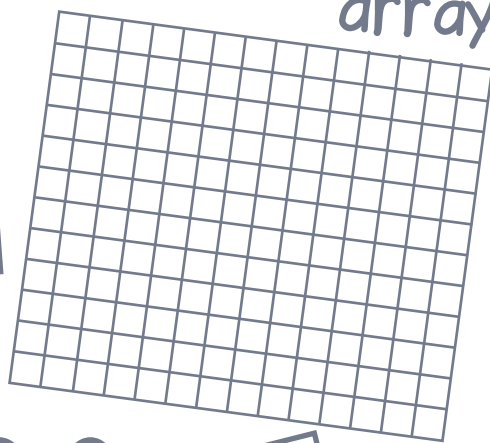
Deepen it

Draw it

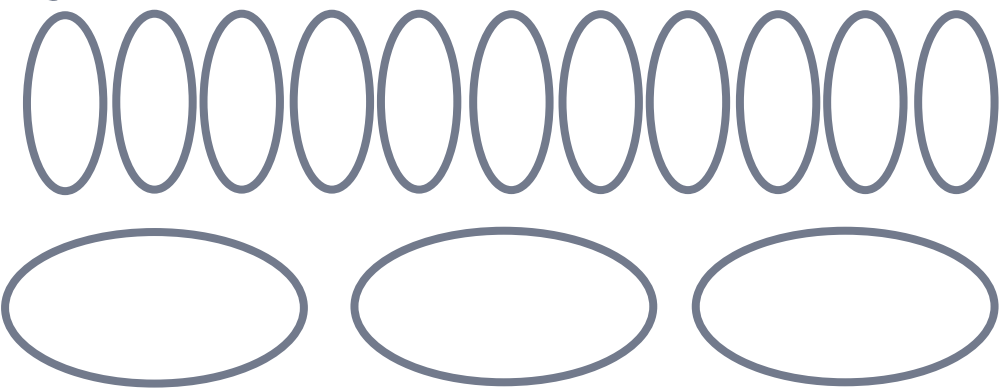
bar



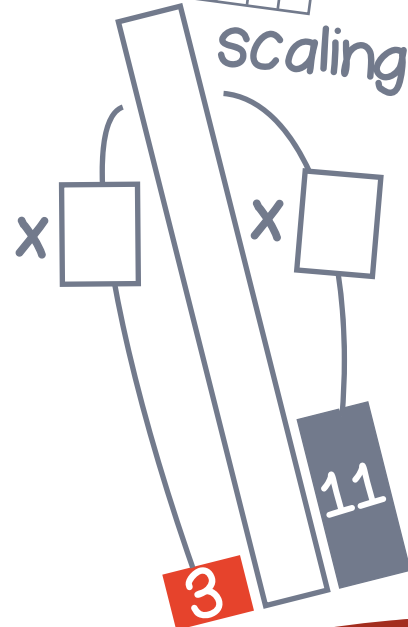
array



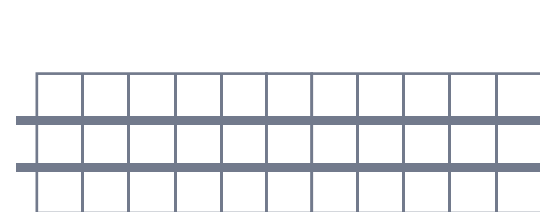
groups



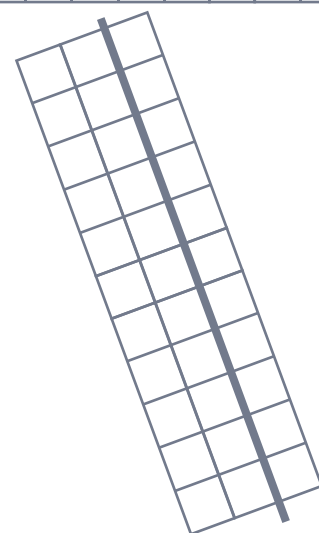
number line



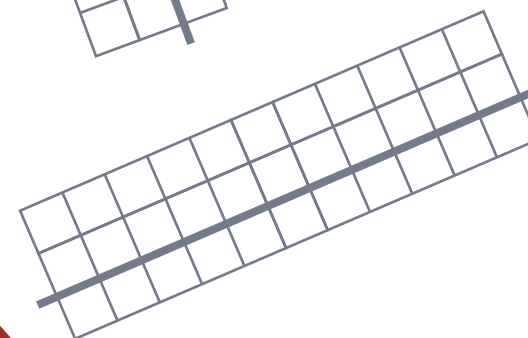
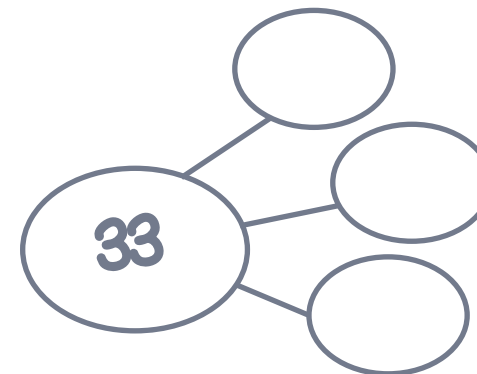
Dissect it



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



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



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



If I know $11 \times 3 = 33$ 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 —

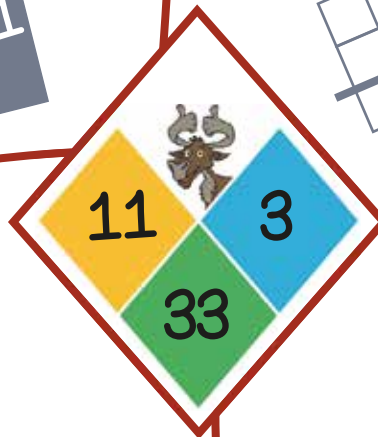
— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$30 = \square \div 11$$

$$33,000 = \square \times 11$$

$$11 = \square \div 30$$

$$\square \times 11 = 330$$

$$\frac{1}{11} \text{ of } \square = 30$$



$330 \div 11 = 3$
True or false?

How many sides are there in total on eleven triangles?

Each spoonful holds 30g of sugar. how much sugar is there in 11 spoonfuls?

11 footballers get rewarded equally for winning a cup match. The reward is £3300 in total. How much does each player receive?

There are 11 beads on each bracelet. A jeweler uses 330 beads. How many bracelets does she make?

Derive it

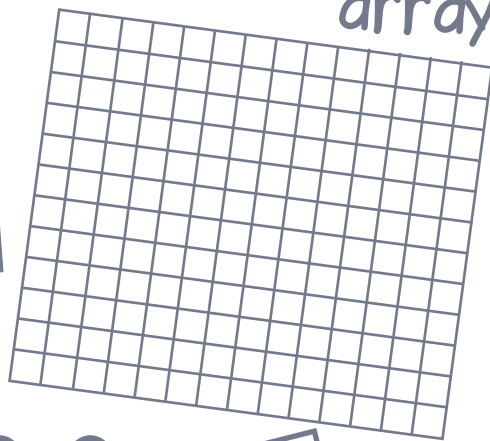
Deepen it

Draw it

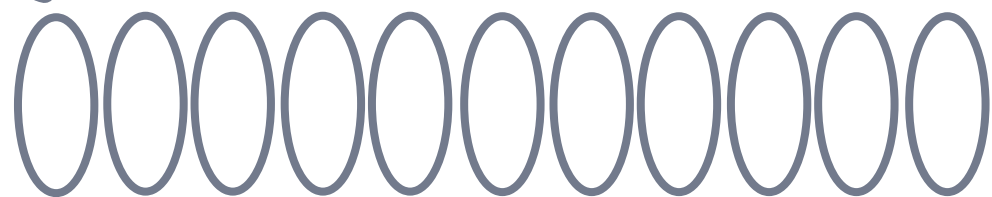
bar



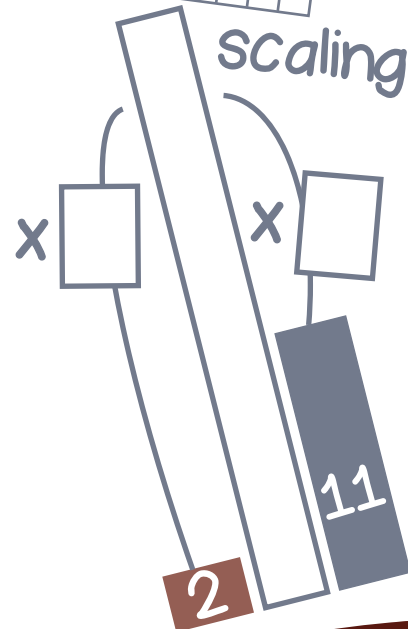
array



groups



scaling



number line



Dissect it

$$11 \times 2 = 11 + \square$$

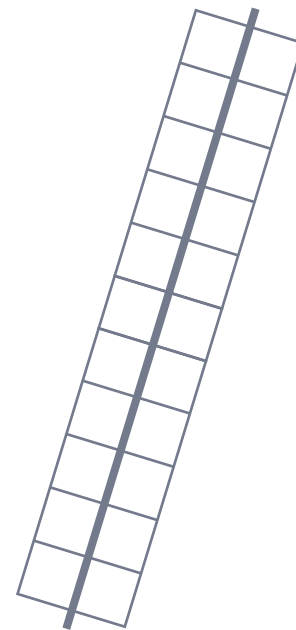
$$= \square$$



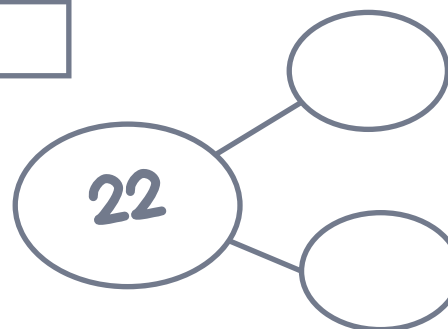
$$11 \times 2 = 11 \times \square + 11 \times \square$$

$$= \square + \square$$

$$= \square$$



$$\text{Double } 11 = \square$$



If I know $11 \times 2 = 22$ then I also know...

$$\square \times \square = 22$$

$$22 = \square \times \square$$

$$22 = \square \times \square$$

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

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

— multiplied by — is —

— groups of — is —

— shared equally between 11 is — each

— put into groups of 11 is — groups of 11

— and — are factors of —

— is a multiple of — and —



$$20 = \square \div 11$$

$$2200 = \square \times 11$$

$$11 = \square \div 20$$

$$\square \times 11 = 2200$$

$$\frac{1}{11} \text{ of } \square = 20$$

Erin has £11. Julie has twice as much as Erin. How much does Julie have?

Eleven footballers go for dinner. They pay £20 each. How much does dinner cost **in total**?

20kg sacks of dog food are loaded onto pallets. The pallets weigh 220kg altogether. How many sacks?

2200 passengers board a cruise ship. They queue in eleven equal lines. How many in each line?



$2 \times 11 = 11 + 11$
True or false?

Derive it

Deepen it