bar

16

array

groups

number line

0   16

scaling

x □   x □
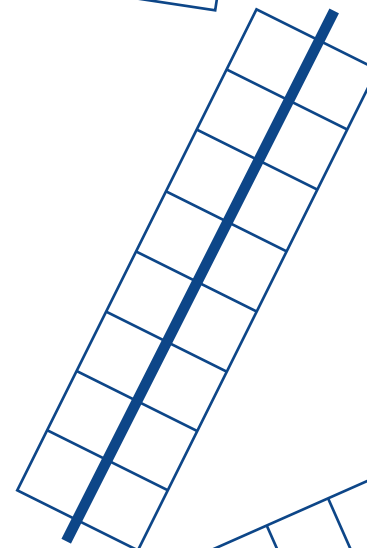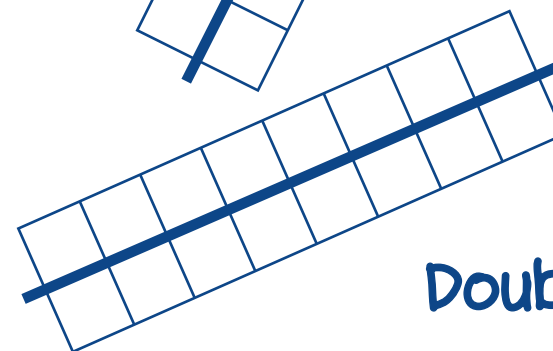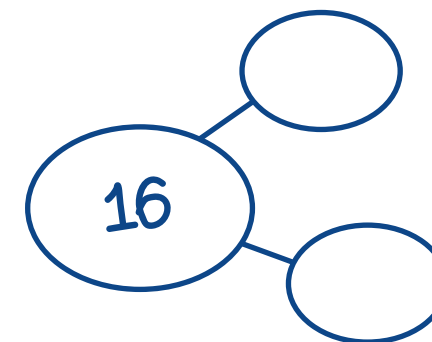
8

2

$8 \times 2 = 8 + \square$

$= \square$

$8 \times 2 = 8 \times \square + 8 \times \square$

$= \square + \square$

$= \square$

16

Double $8 = \square$

8   2

16

If I know $8 \times 2 = 16$ then I also know...

$\square \times \square = 16$

$16 = \square \times \square$

$16 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \square \div 2$

$16 = \square \times 2$

$\frac{1}{8}$ of $\square = 2$

$\square \times 8 = 16$

Billy took 8 minutes to jog a mile. Len took twice as long. How long did Len take to jog a mile?

Quin gave half of his cars to Carl. He gave Carl 8 cars. How many cars did Quin have at first?

One octopus has 8 tentacles. How many tentacles do two octopuses have?

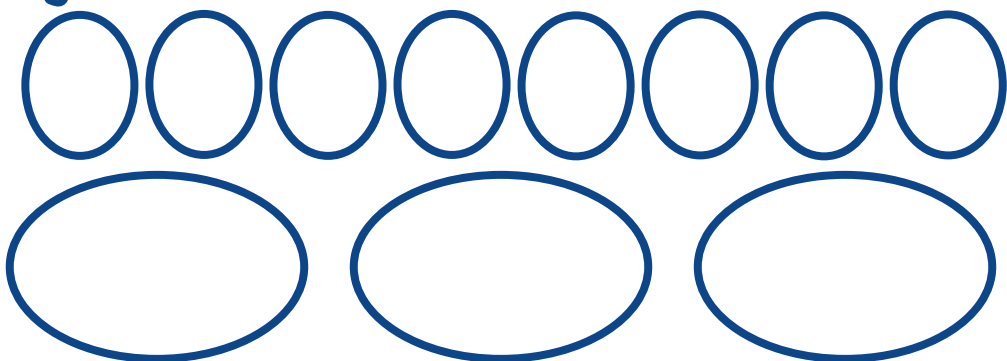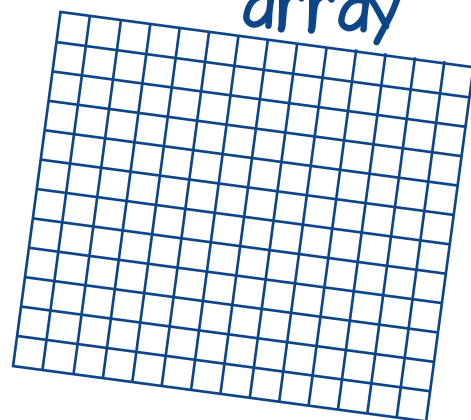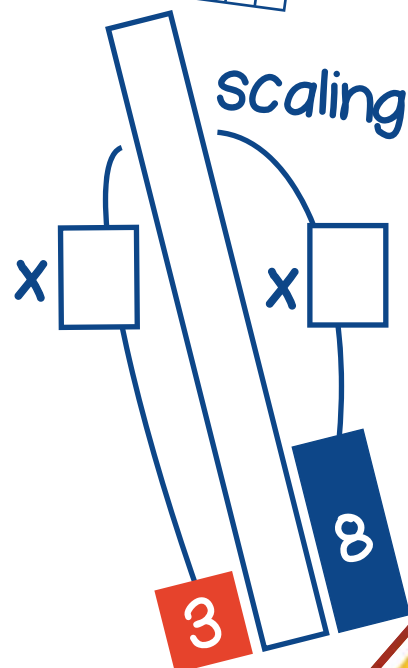16 children line up in eights. How many lines of children are there?

True or false?
Half of $8 = 16$

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bar

24

array

groups

scaling

x ☐   x ☐

3   8

number line

0 — — — 24
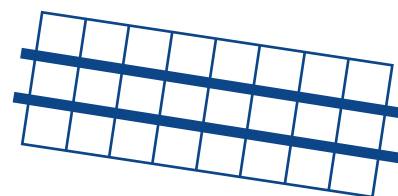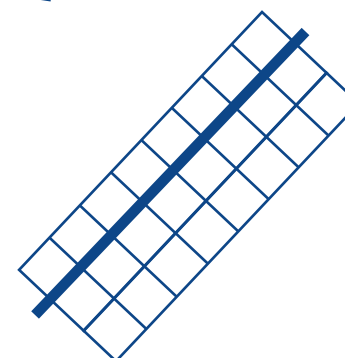
$8 \times 3 = 8 + \square + \square$
$= \square$

$8 \times 3 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 3 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

24

8   3
24

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

$\square \times \square = 24$

$24 = \square \times \square$

$24 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 8 is ___ each

___ put into groups of 8 is ___ groups of 8

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$8 = \square \div 3$

$24 = \square \times 3$

$\frac{1}{8}$ of $\square = 3$

$\square \times 8 = 24$

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

Rory jogged for 8 minutes on three days last week. For how long did he jog **altogether**?

A chef uses a third of a sack of potatoes. He uses 8kg. What did the sack hold to start with?

Ian spends £24 on three T shirts. If they cost the same amount each, how much do they **each** cost?

Phil draws 24 sides to make eight shapes the same. What shapes did he draw?

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Draw it

bar

32

array

groups

number line

0   32

scaling

$\times \square$ $\times \square$
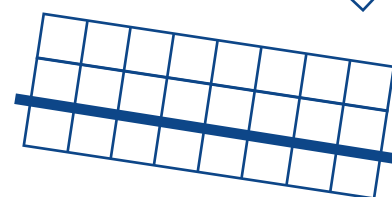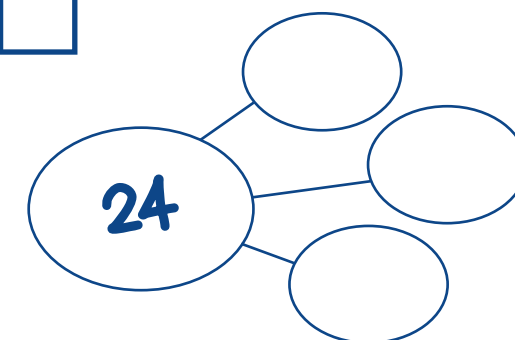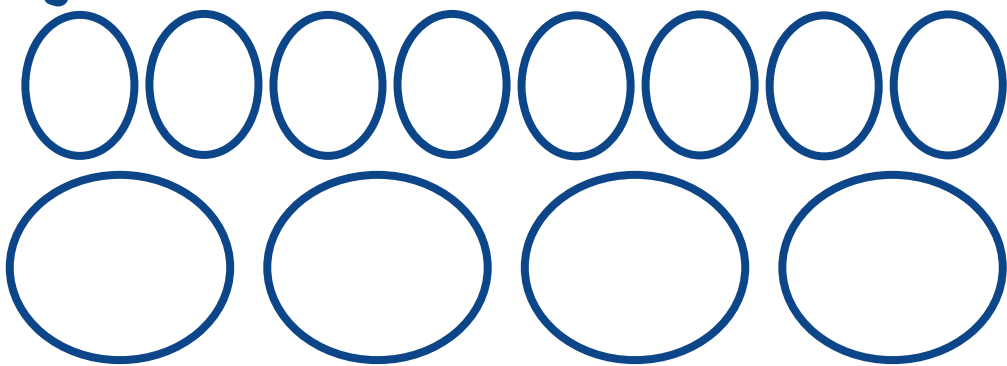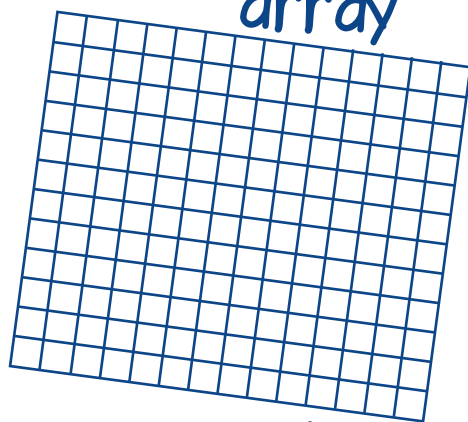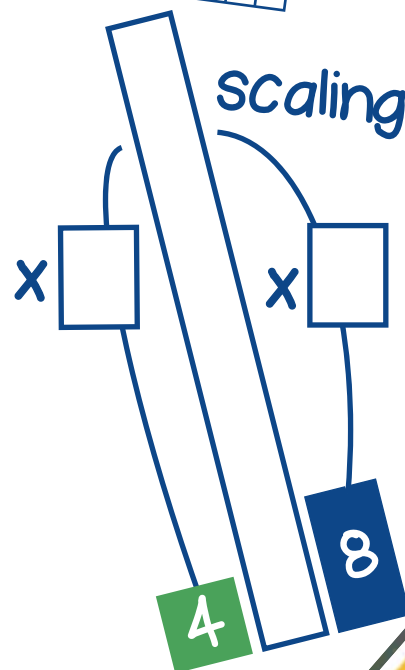
4   8

Dissect it

$8 \times 4 = 8 + \square + 8 + \square$
$= \square$

$8 \times 4 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 4 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 4 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

8   4   32

Derive it

If I know $8 \times 4 = 32$ then I also know...

$\square \times \square = 32$

$32 = \square \times \square$

$32 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 8 is ___ each

___ put into groups of 8 is ___ groups of 8

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$8 = \square \div 4$

$32 = \square \times 4$

$\frac{1}{8}$ of $\square = 4$

$\square \times 8 = 32$

True or false?
$32 \div 8 = 4$

Deepen it

Lyn spent a quarter of her money on music. She spent £8. How much money did she have at first?

Pens are sold in packs of 8. Fran buys 32 pens. How many packs does she buy?

A rugby team score 8 tries in each match. They play 4 matches. How many tries do they score?

The total length of all the sides of an octagon is 32cm. The sides are equal. How long is each side?

bar

40

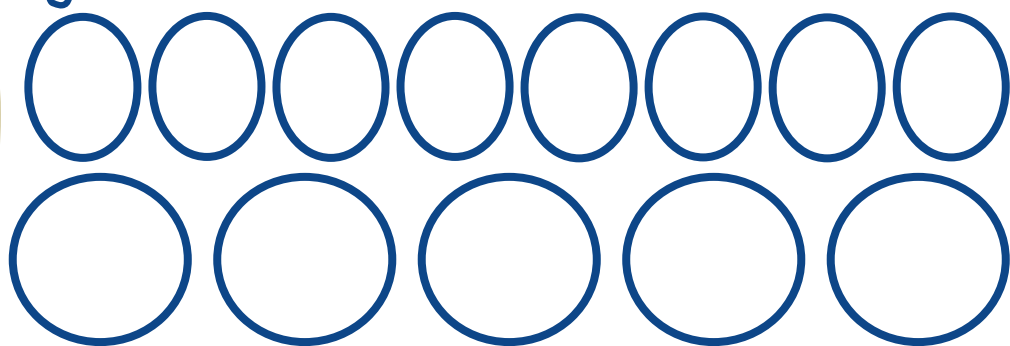**array**

groups
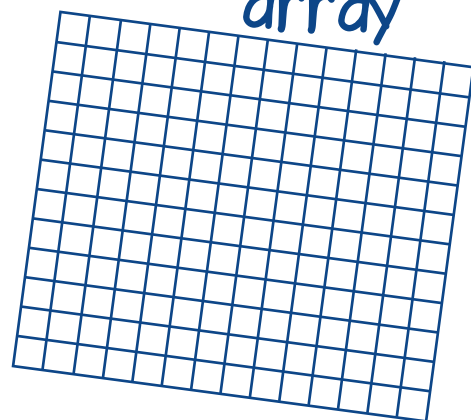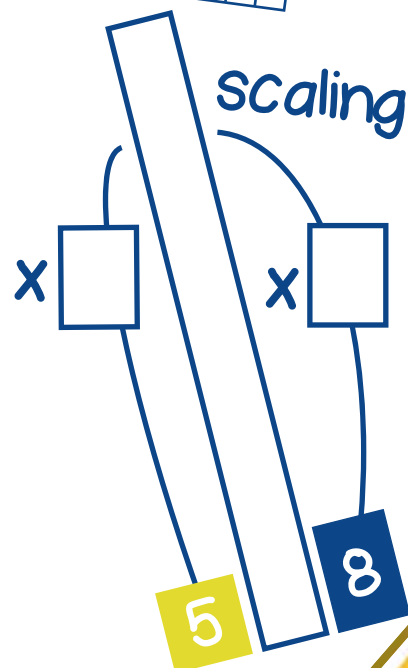
scaling

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

5 8

number line
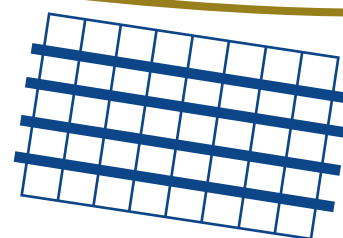
0 40
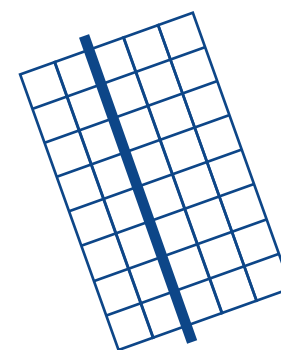
$8 \times 5 = 8 + \square + 8 + \square + \square$
$= \square$

$8 \times 5 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 5 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 5 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

8 5
40

If I know $8 \times 5 = 40$ then I also know...

$\square \times \square = 40$

$40 = \square \times \square$

$40 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 8 is ___ each

___ put into groups of 8 is ___ groups of 8

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$8 = \square \div 5$

$40 = \square \times 5$

$\frac{1}{8}$ of $\square = 5$

$\square \times 8 = 40$

Some girls wash cars and earn £40. They get £8 **each**. How many girls were there?

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

40kg of potatoes are put into 8 bags. If there is the same weight in each bag what does each bag weigh?

Each side of a pentagon is 8cm. What is the total length of all the sides?

True or false?
$8 \times 5 = 4 \times 10$

bar

48

array

groups

scaling

x □   x □

6   8

number line

0   48

$8 \times 6 = 8 \times \square + 8 \times \square$
$= \square + \square$
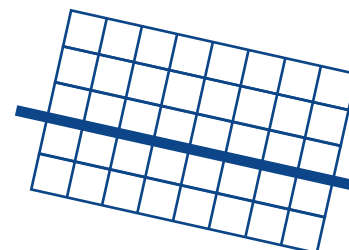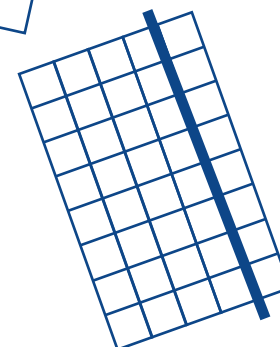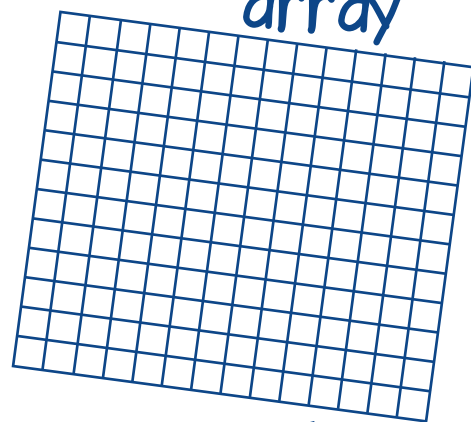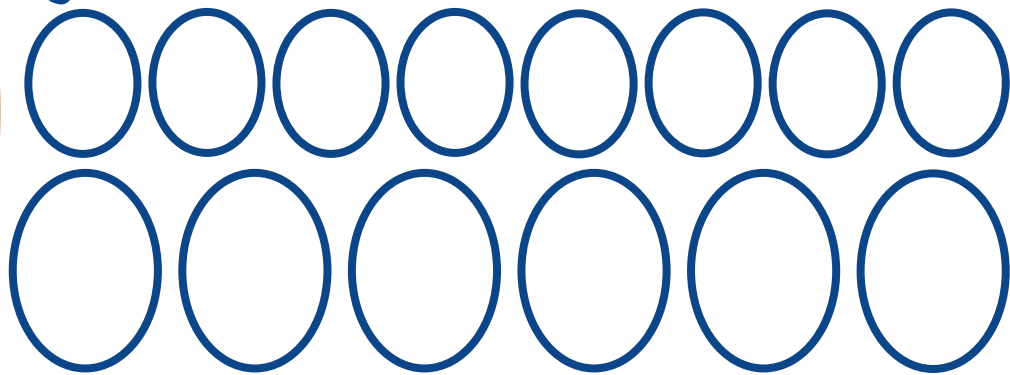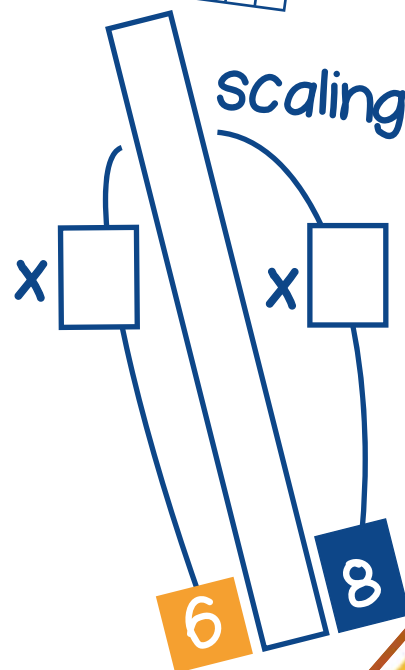$= \square$

$8 \times 6 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 6 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 6 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

8	6
48	

If I know 8 x 6 = 48 then I also know...

$\square \times \square = 48$

$48 = \square \times \square$

$48 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \square \div 6$

$48 = \square \times 6$

$\frac{1}{8}$ of $\square = 6$

$\square \times 8 = 48$

Each egg box holds half a dozen eggs. How many eggs are in eight full egg boxes **altogether**?

George builds a Lego wall 8 bricks high. Each layer has 6 bricks in it. How many bricks are in the wall?

48 litres of water is divided equally between 8 buckets. How much water is in **each** bucket?

Ali bought T shirts that were £8 each. He spent £48. How many T shirts did he buy?

True or false?
8 x 6 = double 3 x 8

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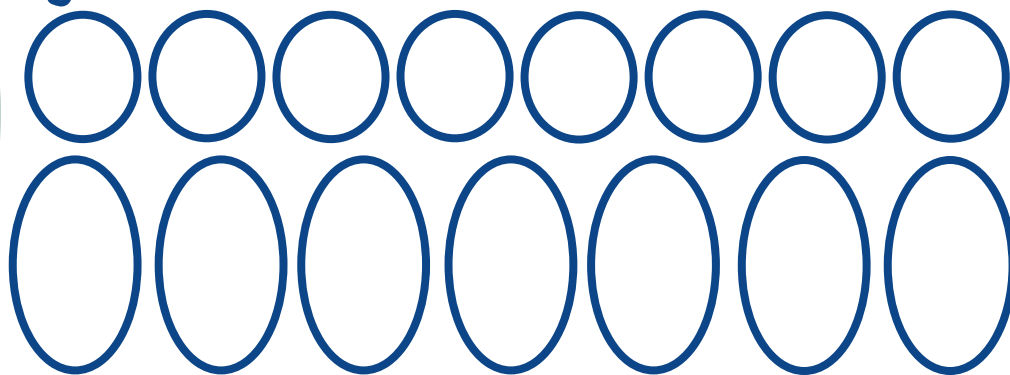**bar**

56

array

groups

scaling

$\times \boxed{}$ $\times \boxed{}$

7 8

number line

0   56
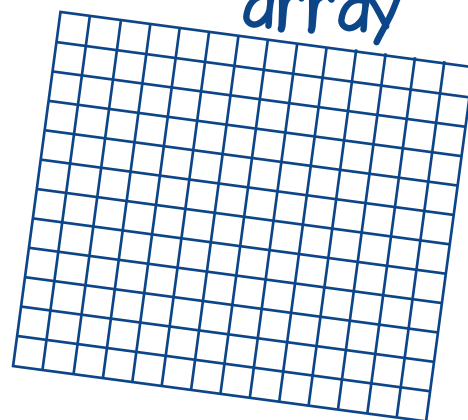
$8 \times 7 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 7 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 7 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 7 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

8	7
	56

If I know $8 \times 7 = 56$ then I also know...

$\boxed{} \times \boxed{} = 56$

$56 = \boxed{} \times \boxed{}$

$56 = \boxed{} \times \boxed{}$

$\boxed{} \div \boxed{} = \boxed{}$

$\boxed{} = \boxed{} \div \boxed{}$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \boxed{} \div 7$

$56 = \boxed{} \times 7$

$\frac{1}{8}$ of $\boxed{} = 7$

$\boxed{} \times 8 = 56$

Sasha spends £56 on books that cost £8 each. How many books did she buy?

Hannah jogs 8km each day. How far does she jog in a week **in total**?

Each flower has eight petals. There are seven flowers. How many petals are there **altogether**?

Brenda bakes 56 cup cakes for a sale. She arranges them in eight equal rows. How many in **each** row?

True or false?
$8 \times 7 = 5 \times 7 + 2 \times 7$

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bar

64

array

groups

scaling

× □

8
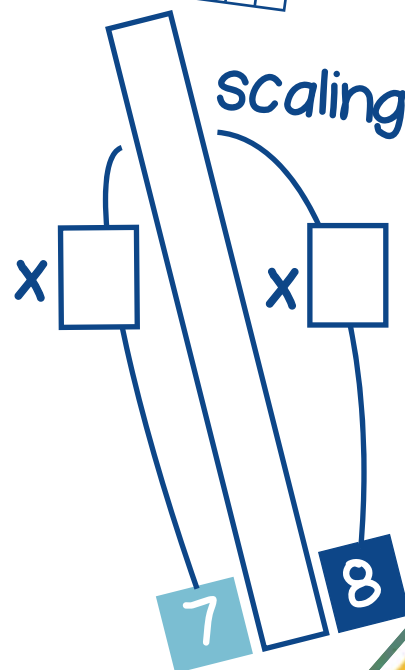
number line

0   64

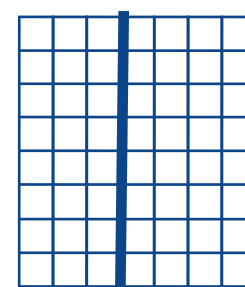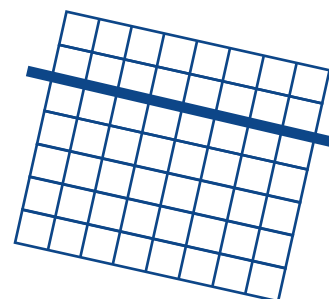$8 \times 8 = 8 \times \square + 8 \times \square$
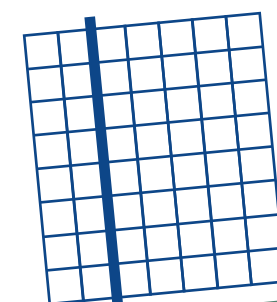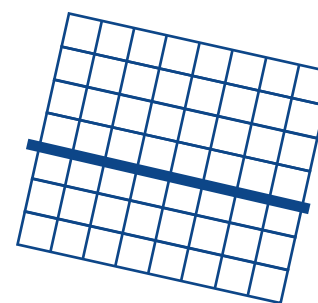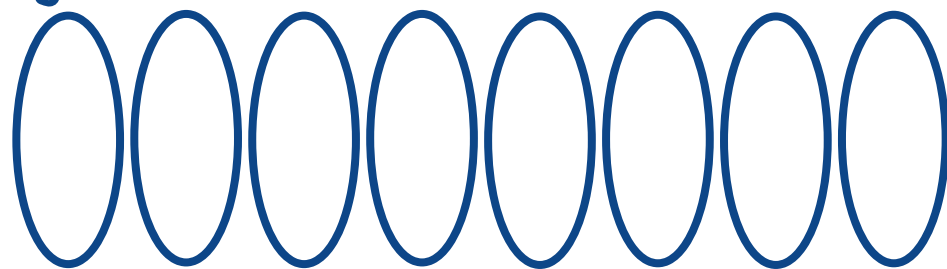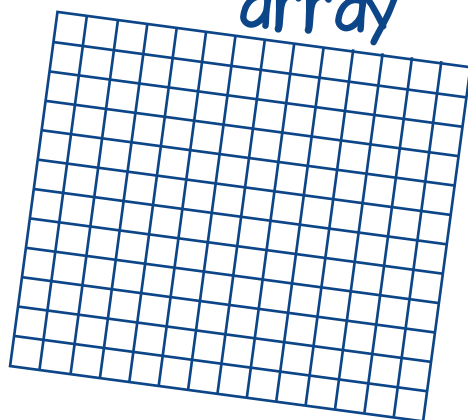$= \square + \square$
$= \square$

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

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

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

8   8
64

If I know $8 \times 8 = 64$ then I also know...

$\square \times \square = 64$

$64 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 8 is ___ each

___ put into groups of 8 is ___ groups of 8

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$8 = \square \div 8$

$64 = \square \times 8$

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

$\square \times 8 = 64$

A chess board has a total of 64 squares in eight rows. How many squares are in **each** row?

How many sides do 8 octagons have **altogether**?

64 scouts go camping. **Each** tent can sleep 8 scouts. How many tents do they need?

Harry buys eight books at £8 each. How much do the books cost **in total**?
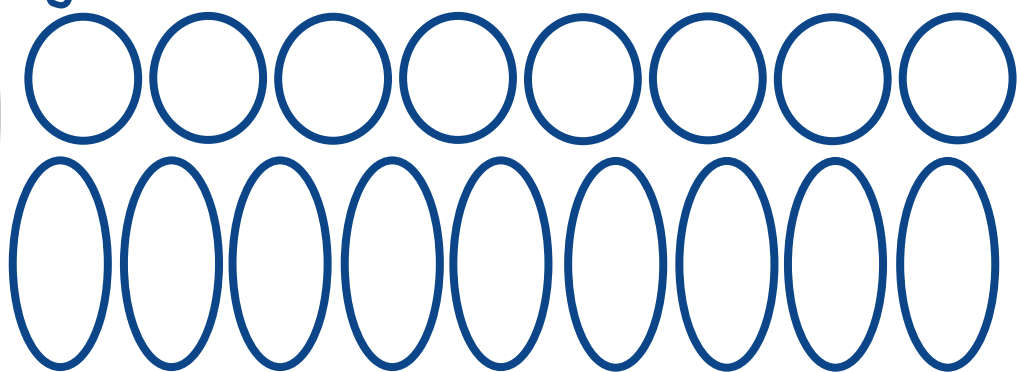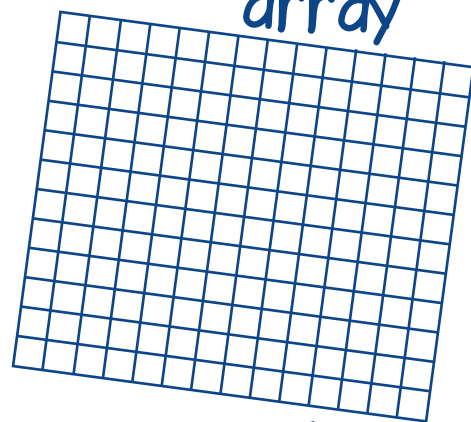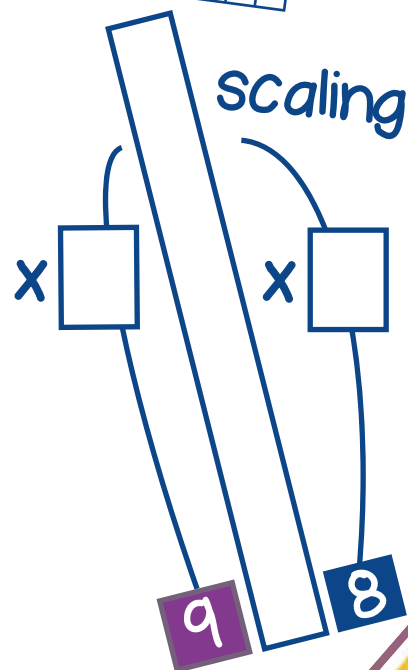
$8 \div 8 = 64$
True or false?

bar

72

array

groups

scaling

$x \boxed{}$ $x \boxed{}$

9 8

number line

0 ——————————— 72

$8 \times 9 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 9 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 9 = 8 \times \boxed{} + 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 9 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

8 9
72

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

$\boxed{} \times \boxed{} = 72$

$72 = \boxed{} \times \boxed{}$

$72 = \boxed{} \times \boxed{}$

$\boxed{} \div \boxed{} = \boxed{}$

$\boxed{} = \boxed{} \div \boxed{}$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \boxed{} \div 9$

$72 = \boxed{} \times 9$

$\frac{1}{8}$ of $\boxed{} = 9$

$\boxed{} \times 8 = 72$

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

There are nine bags of dog food, each weighing 8kg. What is the **total** weight of the dog food?

Each tin of paint can cover $8m^2$ of wall. How many tins of paint will be needed to cover $72m^2$?

If one octopus has 8 tentacles how many tentacles would nine octopuses have **in total**?

At the cinema 72 people sit equally in 8 rows. How many people sit in **each** row?

bar

80

array

groups

scaling

x □   x □

10   8

number line

0   80

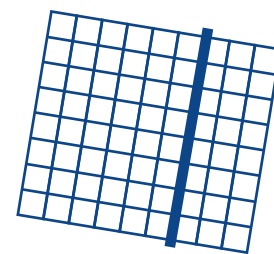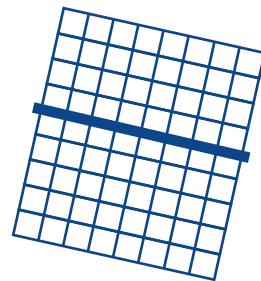$8 \times 10 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

$8 \times 10 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$
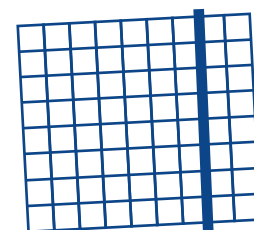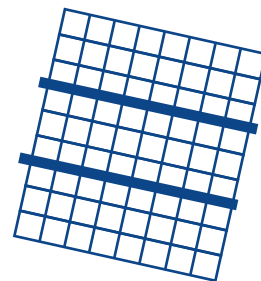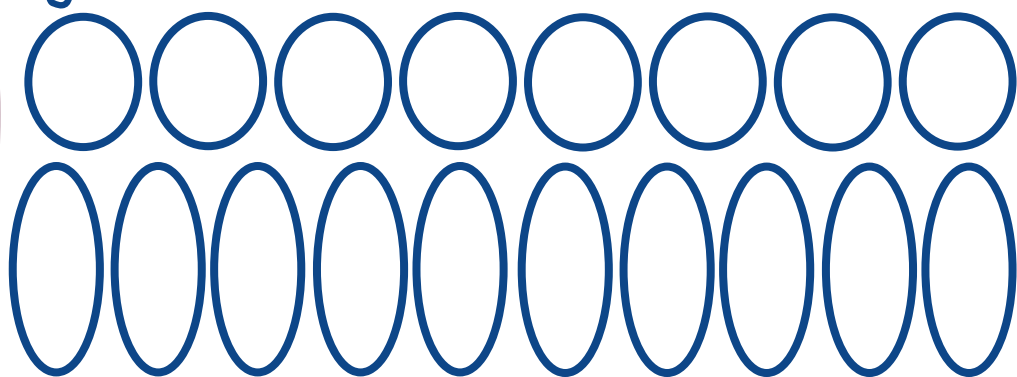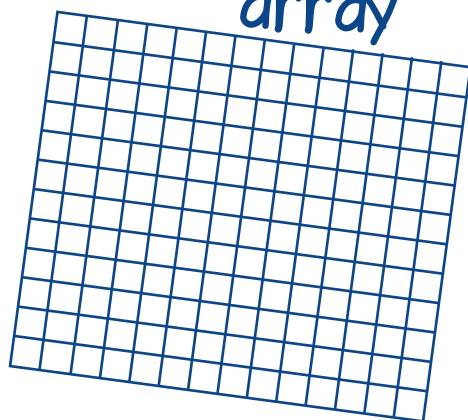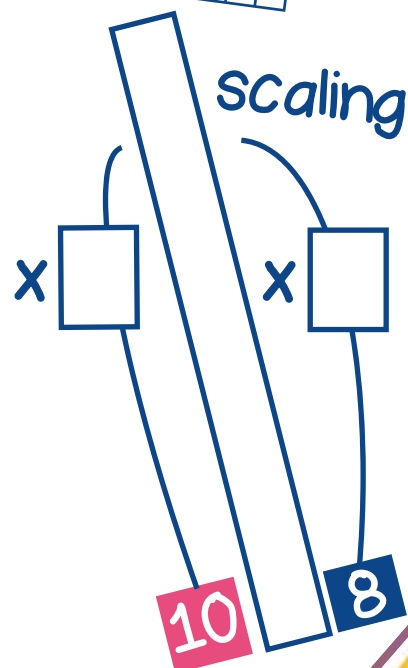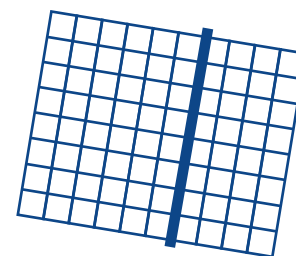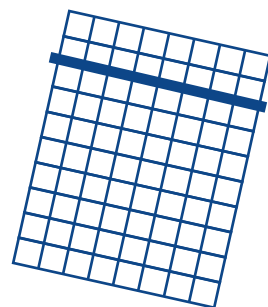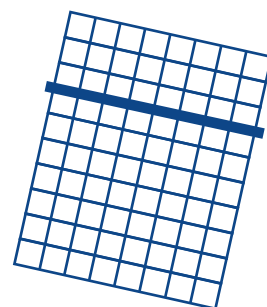
$8 \times 10 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$
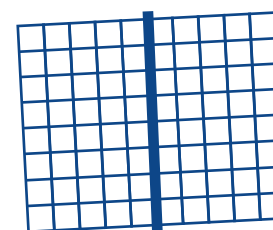
$8 \times 10 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

8   10   80

If I know $8 \times 10 = 80$ then I also know...

$\square \times \square = 80$

$80 = \square \times \square$

$80 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

___ multiplied by ___ is ___

___ groups of ___ is ___

___ shared equally between 8 is ___ each

___ put into groups of 8 is ___ groups of 8

___ and ___ are factors of ___

___ is a multiple of ___ and ___

$8 = \square \div 10$

$80 = \square \times 10$

$\frac{1}{8}$ of $\square = 10$

$\square \times 8 = 80$

80 spectators sit equally in 8 rows. How many spectators in **each** row?

Each adult dog has 8 puppies. If there are ten adult dogs, how many puppies **in total**?

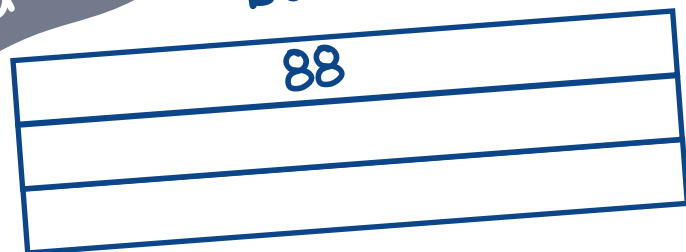Rob draws ten octagons. How many sides does he draw **altogether**?

A sports coach stores balls in bags of 8. He has 80 balls. How many bags does he need **altogether**?
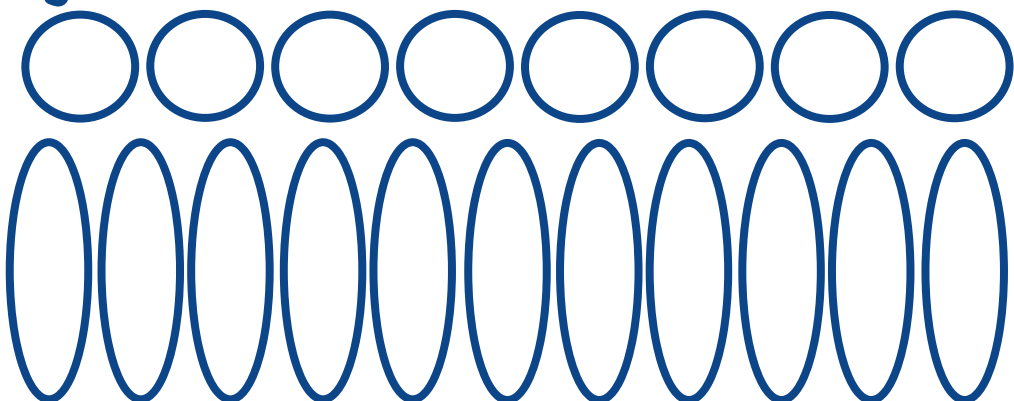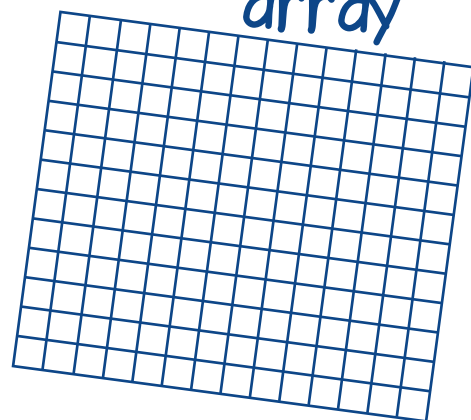
$80 \div 10 = 8$
True or false?

bar

88

array

groups

scaling

$\times \boxed{}$ $\times \boxed{}$

11   8

number line

0   88

$8 \times 11 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 11 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 11 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

$8 \times 11 = 8 \times \boxed{} + 8 \times \boxed{}$
$= \boxed{} + \boxed{}$
$= \boxed{}$

8	11
88	

Derive it

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

$\boxed{} \times \boxed{} = 88$

$88 = \boxed{} \times \boxed{}$

$88 = \boxed{} \times \boxed{}$

$\boxed{} \div \boxed{} = \boxed{}$

$\boxed{} = \boxed{} \div \boxed{}$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \boxed{} \div 11$

$88 = \boxed{} \times 11$

$\frac{1}{8}$ of $\boxed{} = 11$

$\boxed{} \times 8 = 88$

Deepen it

There are 11 footballers in **each** team. How many footballers are there in 8 teams?

Each vase has 8 tulips in it. How many tulips are there in 11 vases?

Amy spends £88 on 8 books. If **each** book costs the same, how much does a book cost?

A horse eats 8kg of hay **each** day. For how many days will 88kg of hay last?

$11 \div 88 = 8$
True or false?

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bar

96
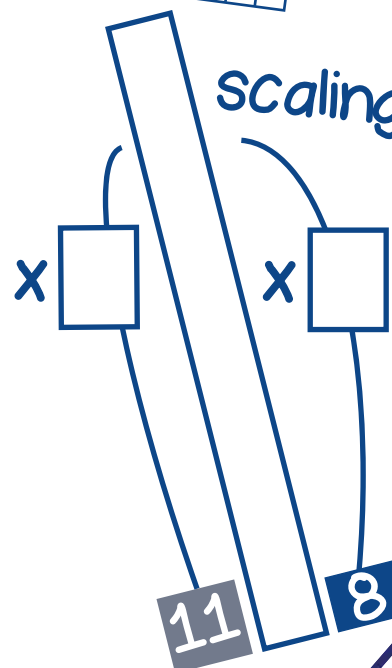
array

groups

scaling

x ☐   x ☐

12   8

number line
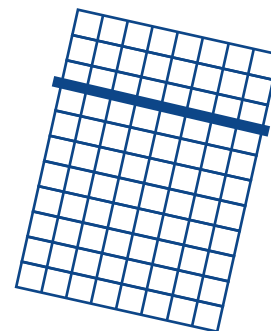
0   96

$8 \times 12 = 8 \times \square + 8 \times \square$
$= \square + \square$
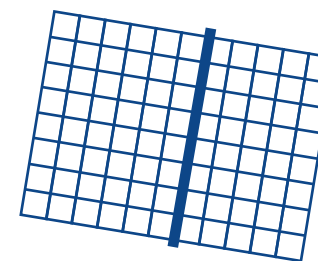$= \square$

$8 \times 12 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$
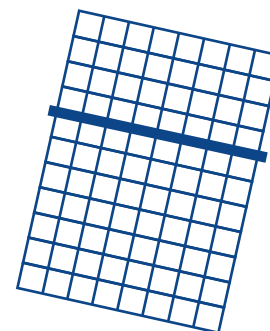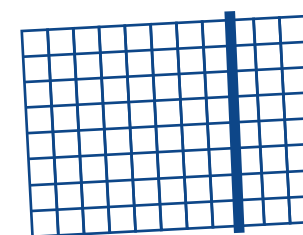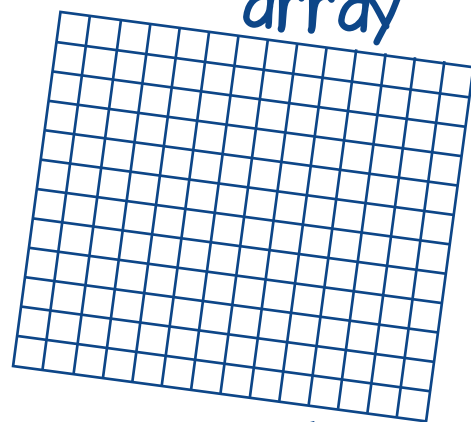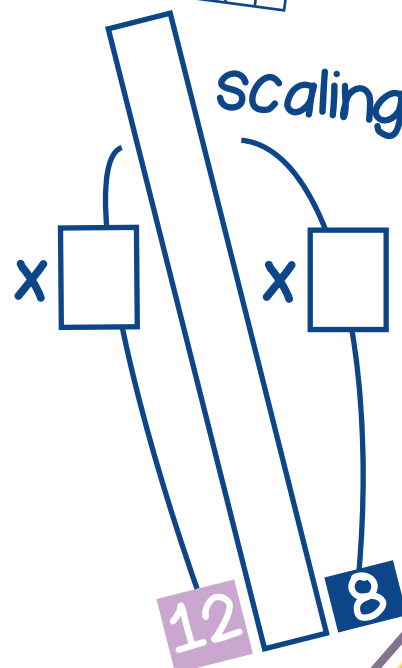
$8 \times 12 = 8 \times \square + 8 \times \square + 8 \times \square$
$= \square + \square + \square$
$= \square$

$8 \times 12 = 8 \times \square + 8 \times \square$
$= \square + \square$
$= \square$

8   12
96

If I know 8 x 12 = 96 then I also know...

$\square \times \square = 96$

$96 = \square \times \square$

$96 = \square \times \square$

$\square \div \square = \square$

$\square = \square \div \square$

__ multiplied by __ is __

__ groups of __ is __

__ shared equally between 8 is __ each

__ put into groups of 8 is __ groups of 8

__ and __ are factors of __

__ is a multiple of __ and __

$8 = \square \div 12$

$96 = \square \times 12$

$\frac{1}{8}$ of $\square = 12$

$\square \times 8 = 96$

Each box holds a dozen pens. How many pens are there in 8 boxes?

Eight minibuses carry 96 people equally. How many people are there in **each** minibus?

A farmer puts eight pigs in **each** sty. If he has 96 pigs, how many pigsties does he use?

There are 8 pints in a gallon. How many pints are there in 12 gallons?

True or false?
8 x 12 is double 4 x 6

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