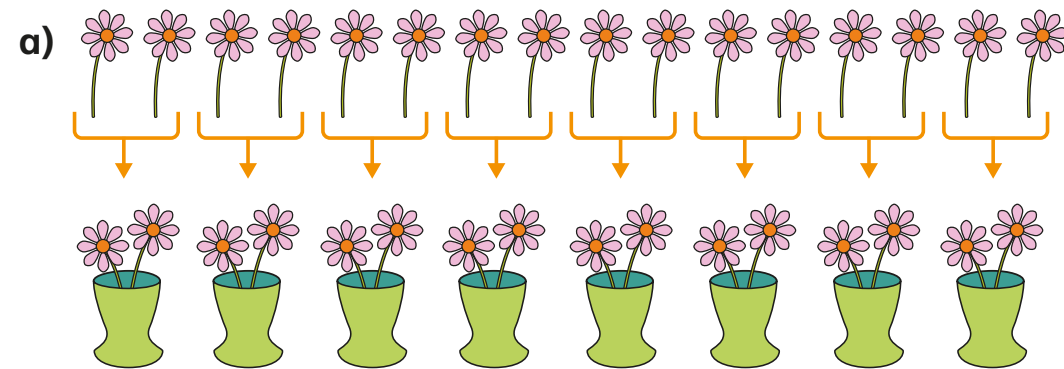


Divide by 8



1 Complete the sentences.

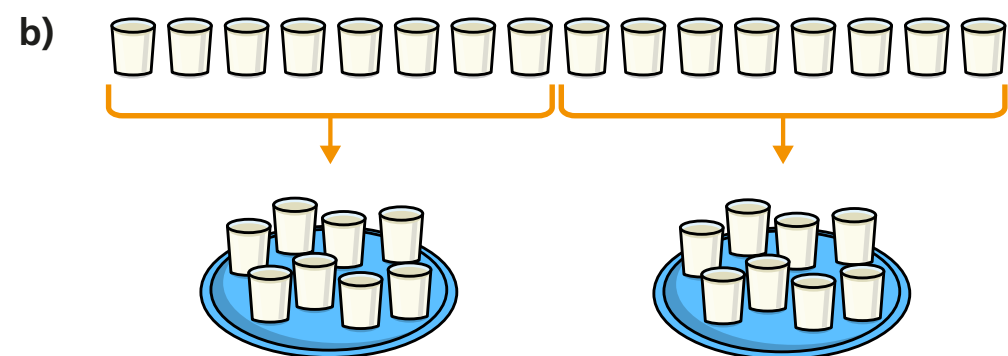


There are flowers.

There are vases.

Each vase has flowers.

16 shared into equal groups is



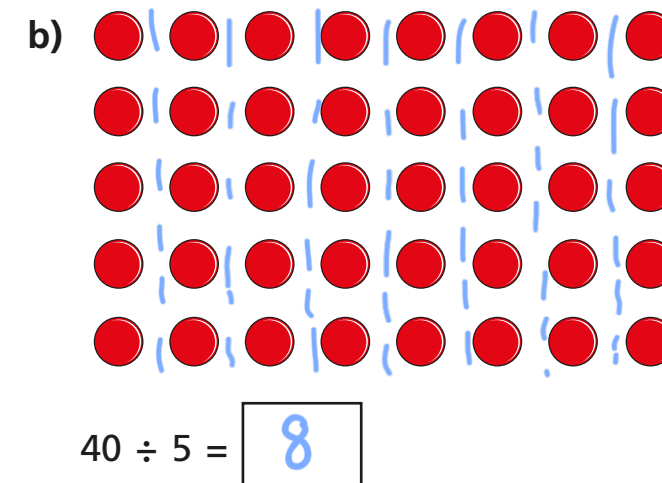
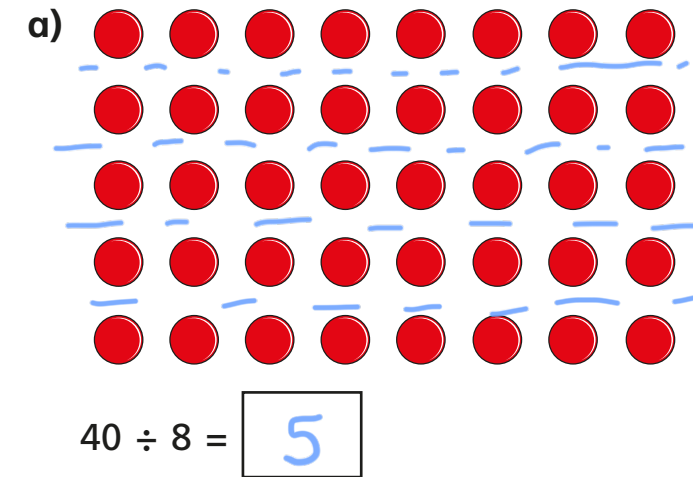
There are 16 glasses of milk.

There are glasses of milk on each tray.

There are trays.

16 shared into equal groups is

2 Use the arrays to help you complete the divisions.
Draw on the arrays to show your workings.



3 32 coins are shared between 8 people.
How many coins does each person get?

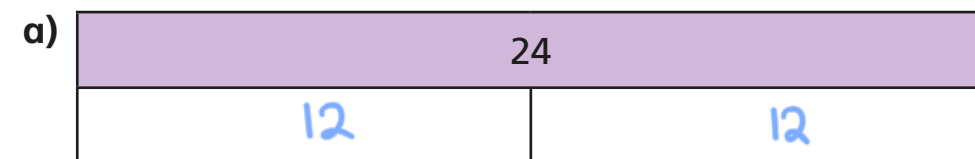


Complete the division.

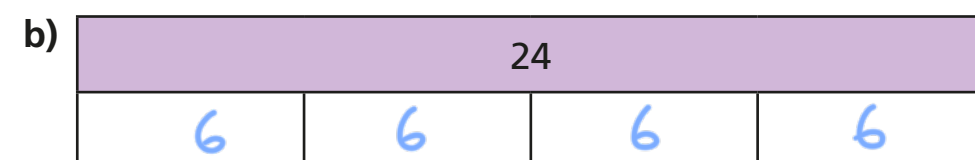
$$32p \div 8 = 4p$$



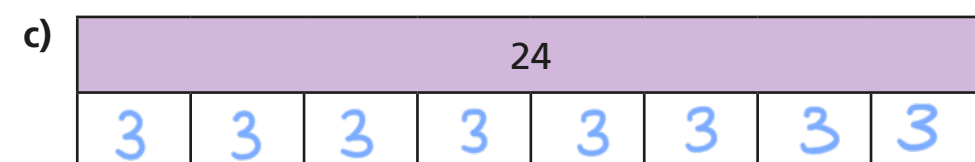
- 4 Complete the bar models and division statements.



$$24 \div 2 = 12$$



$$24 \div 4 = 6$$



$$24 \div 8 = 3$$

What do you notice?



- 5 40 kg of potatoes are packed into 8 kg bags.
How many 8 kg bags can be filled?

5

- 6 a) Match the number story to the bar model.

56 sweets are shared equally between 8 party bags.

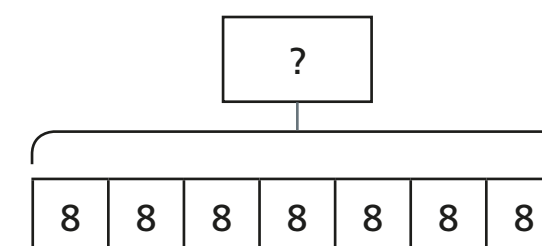
56							
8 8 8 8 8 8 8 8							

56 sweets are put into party bags. There are 8 sweets in each bag.

56							
7 7 7 7 7 7 7 7							

- b) Complete the bar models.

- c) Think of a number story to match this bar model.



- 7 Circle the numbers that divide by 8 exactly.

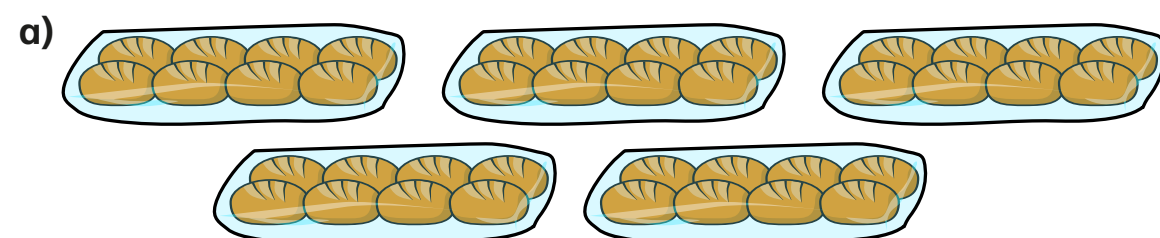


How did you work this out?

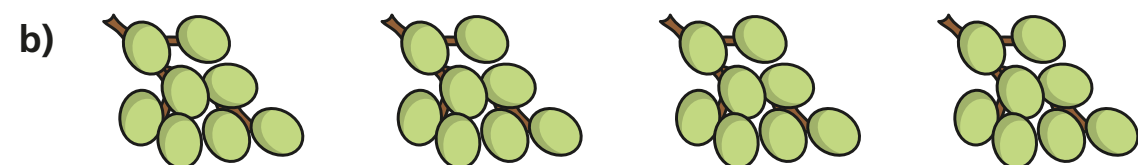
The 8 times-table

1 How many are there in total?

Complete the multiplications.



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



$$\boxed{4} \times \boxed{8} = \boxed{32}$$

2 Complete the number tracks.

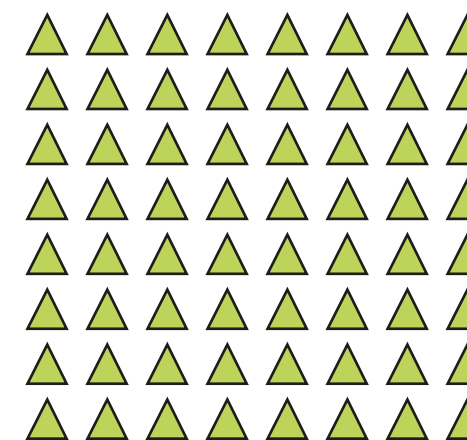
a)

0	8	16	24	32	40	48	56
---	---	----	----	----	----	----	----

b)

96	88	80	72	64	56	48	40
----	----	----	----	----	----	----	----

3 Here is an array made up of triangles.



a) What multiplication sentence can you see?

$$\boxed{8} \times \boxed{8} = \boxed{64}$$

b) What division sentence can you see?

$$\boxed{64} \div \boxed{8} = \boxed{8}$$

4 Complete the calculations.

Try to do the calculations in your head.

a) $6 \times 8 = \boxed{48}$

e) $72 \div 8 = \boxed{9}$

b) $8 \times \boxed{7} = 56$

f) $\boxed{88} \div 11 = 8$

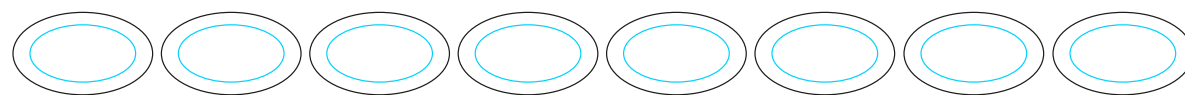
c) $10 \times 8 = \boxed{80}$

g) $\boxed{40} \div 8 = 5$

d) $\boxed{32} = 8 \times 4$

h) $8 \times 1 = \boxed{8}$

- 5 What multiplication can you see?



- 6 Complete the multiplications.

a) $2 \times 8 =$ 16

b) $8 = 8 \times$ 1

$4 \times 8 =$ 32

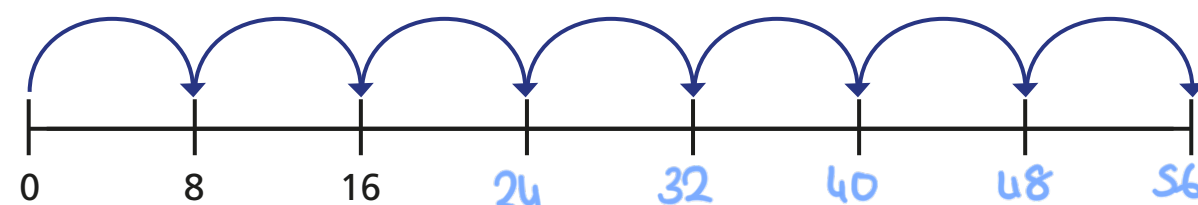
$16 = 8 \times$ 2

$8 \times 8 =$ 64

$32 = 8 \times$ 4

What patterns do you notice?

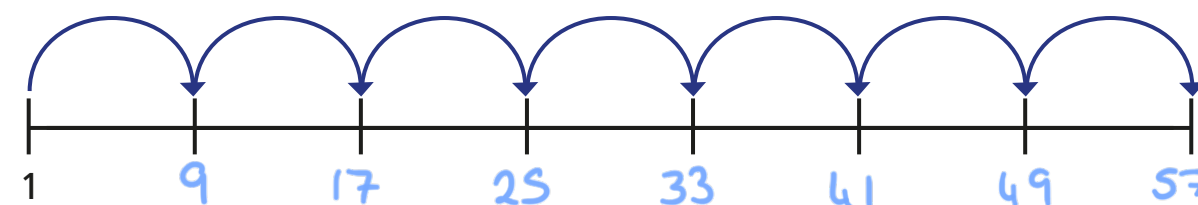
- 7 a) Amir draws 7 jumps of 8 on a number line.



What number does Amir end on? 56

Explain how you worked it out.

- b) This time, Amir makes 7 jumps of 8, but starts from 1



What number does Amir end on this time? 57

Explain how you know.

- 8 Boats can be hired on a lake.

There are 5 large boats and 8 small boats on the lake.

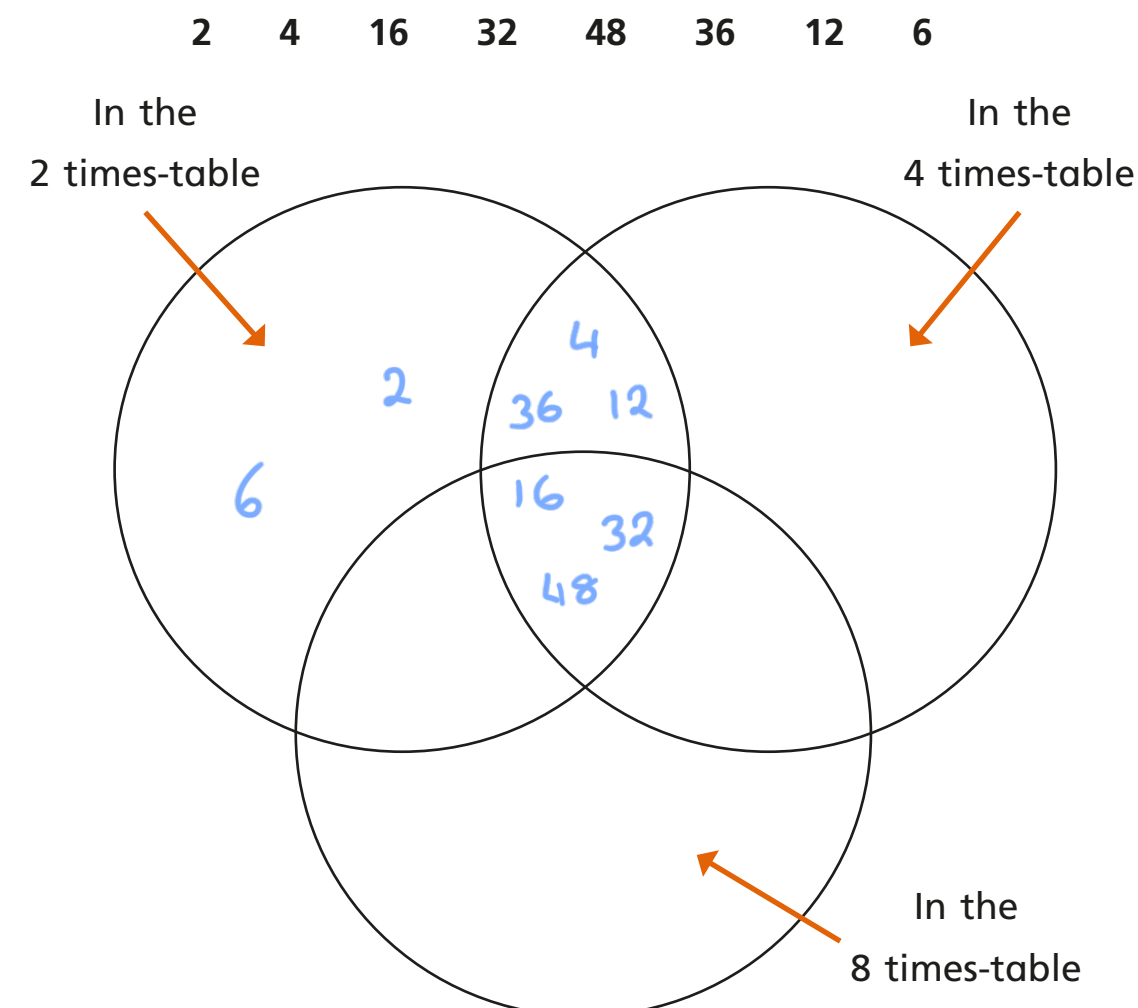
Each boat is full.

How many people are on the lake?

72



- 8 Put the numbers into the sorting diagram.






Are any of the parts empty? Why?

Talk about it with a partner.

Y3 – Spring – Block 1 – Consolidate 2, 4 and 8 times-tables Answers

Question	Answer
1	a) $5 \times 2 = 10$ or $2 \times 5 = 10$ b) $3 \times 4 = 12$ or $4 \times 3 = 12$ c) $4 \times 8 = 32$ or $8 \times 4 = 32$
2	a) $9 \times 2 = 18$ or $2 \times 9 = 18$ b) $5 \times 4 = 20$ or $4 \times 5 = 20$ c) $8 \times 8 = 64$
3	a) 6 cm b) 12 cm c) 24 cm
4	a) 2 4 6 8 10 b) 4 8 12 16 20 c) 8 16 24 32 40 <p>The values in the 4 times-table are all twice the corresponding value in the 2 times-table. The values in the 8 times-table are all twice the corresponding value in the 4 times-table.</p>
5	a) 24 b) 20 c) 56 d) 24 e) 32 f) 22 g) 36 h) 80
6	a) $2 \times 8 = 16$ b) $4 \times 5 = 20$ c) $24 = 12 \times 2$ d) $8 \times 0 = 0$ e) $2 \times 4 \times 8 = 64$ f) $40 = 1 \times 5 \times 8$ or $40 = 2 \times 5 \times 4$ or $40 = 4 \times 5 \times 2$ or $40 = 8 \times 5 \times 1$

Y3 – Spring – Block 1 – Consolidate 2, 4 and 8 times-tables Answers (continued)

Question	Answer
7	 = <input type="text" value="4"/>  = <input type="text" value="8"/>  = <input type="text" value="2"/>
8	70

Comparing statements

1 Complete the number sentences to describe the pictures.

a)



$$4 \times 5 = \square$$

$$20 \div 5 = \square$$

b)



$$5 \times 4 = \square$$

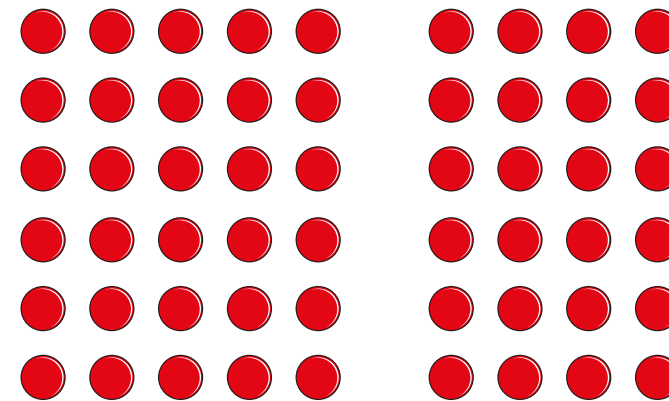
$$20 \div 4 = \square$$

What is the same and what is different in parts a) and b)?



2 Write $<$, $>$ or $=$ to compare the arrays.

a)



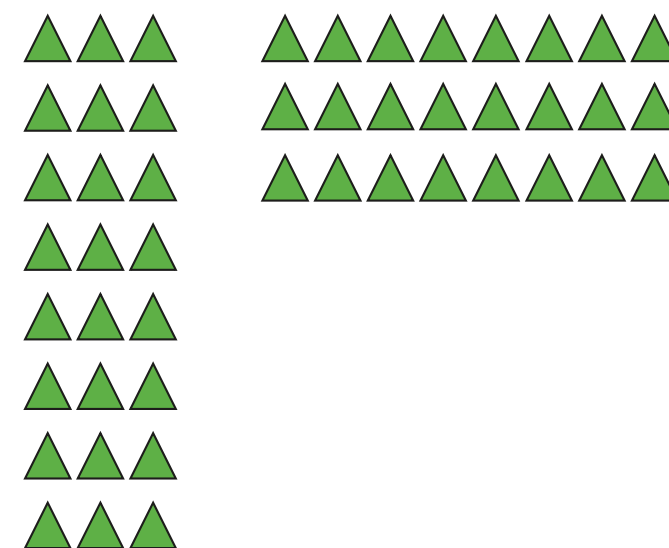
$$5 \times 6 \bigcirc 6 \times 4$$

b)



$$3 \times 6 \bigcirc 6 \times 3$$

c)



$$8 \times 3 \bigcirc 3 \times 8$$

3 Rosie and Tommy each have 12 slices of melon.

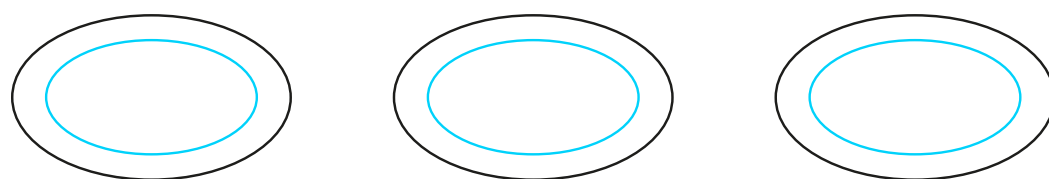
a) Rosie shares her slices between 4 bowls.



How many slices are in each bowl?

3

b) Tommy shares his slices between 3 plates.



How many slices are on each plate?

4

c) Are there more slices of melon in a bowl or on a plate?

Explain your answer.

On a plate because 4 is greater than 3

4 Write $<$, $>$ or $=$ to compare the calculations.

a) 4×3 $=$ 2×6

c) 5×3 $>$ 3×4

b) 8×3 $=$ 4×6

d) 3×4 $<$ 4×5



e) $20 \div 4$ $>$ $20 \div 5$

g) $30 \div 10$ $<$ $30 \div 6$

f) $24 \div 2$ $=$ $36 \div 3$

h) $18 \div 2$ $>$ $18 \div 3$

How did you work this out? Talk about it with a partner.

5 Here are some calculation cards.

$30 \div 6$

4×6

$27 \div 3$

4×8

8×3

12×2

5×6

$18 \div 3$

Write each calculation in the table.

Less than 6×4	Equal to 6×4	Greater than 6×4
$30 \div 6$ $27 \div 3$ $18 \div 3$	8×3 4×6 12×2	5×6 4×8

Write one more calculation in each column.

Did you have to work out all the calculations?

6 Complete the statements. e.g.

a) $7 \times 3 > 6 \times 3$

c) $30 \div 6 = 1 \times 5$

b) $24 \div 12 < 2 \times 2$

d) $12 \times 1 > 12 \div 2$

How many different ways can you complete the statements?

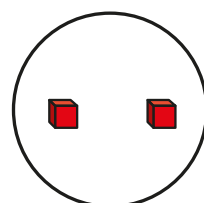
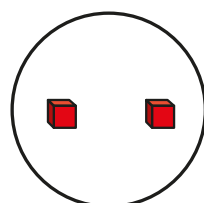
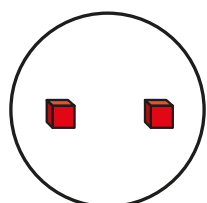


Related calculations



1 Complete the number sentences.

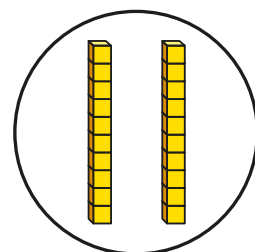
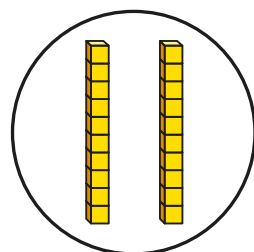
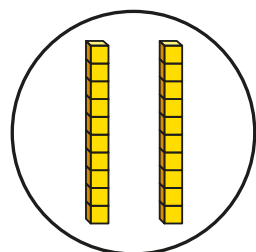
a)



$$3 \times 2 \text{ ones} = \boxed{6} \text{ ones}$$

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

b)



$$3 \times 2 \text{ tens} = \boxed{6} \text{ tens}$$

$$3 \times 20 = \boxed{60}$$

2 Use base 10 to represent the multiplications.
Complete the number sentences.

a) $2 \times 4 = \boxed{8}$

$$2 \times 40 = \boxed{80}$$

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

$$5 \times 30 = \boxed{150}$$

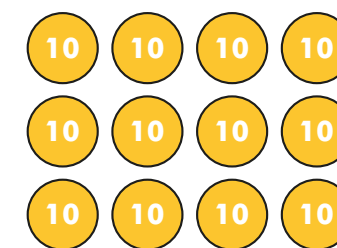
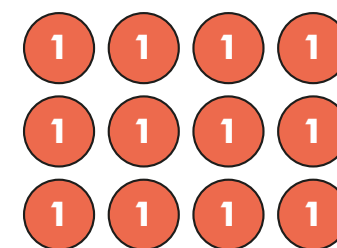
c) $5 \times 2 = \boxed{10}$

$$5 \times 20 = \boxed{100}$$

d) $2 \times 8 = \boxed{16}$

$$80 \times 2 = \boxed{160}$$

3 Nijah makes these arrays.



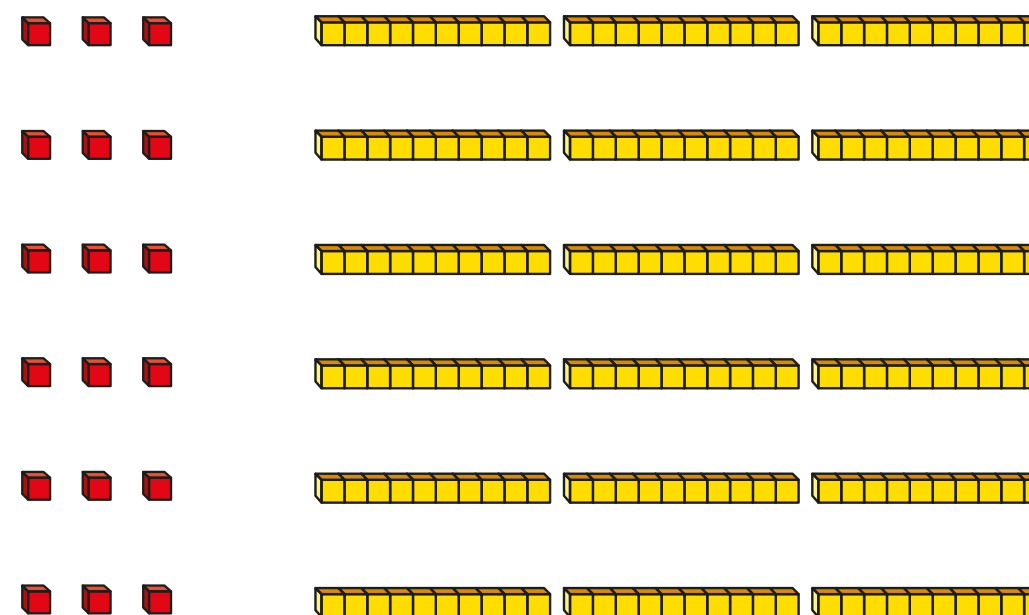
Complete the number sentences.

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

$$4 \times 30 = \boxed{120}$$

What is the same about the arrays? What is different?

4 Scott uses base 10 to make two related calculations.
Use the base 10 to complete Scott's calculations.

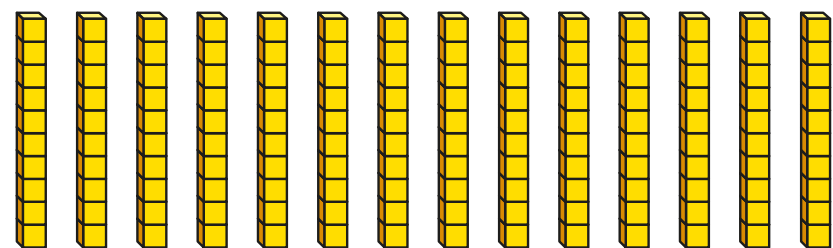


$$6 \times 3 = \boxed{18}$$

$$6 \times 30 = \boxed{180}$$

How does the answer to the first calculation help you work out the second calculation?

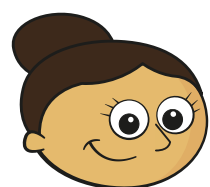
- 5 Use these pieces of base 10 to complete the divisions.



$$14 \div 2 = \boxed{7}$$

$$140 \div 2 = \boxed{70}$$

6



I know
 $5 \times 7 = 35$

Use Dora's fact to complete the calculations.

$$\text{a) } 5 \times 70 = \boxed{350}$$

$$\text{d) } 35 \div 5 = \boxed{7}$$

$$\text{b) } 7 \times 5 = \boxed{35}$$

$$\text{e) } 350 \div 5 = \boxed{70}$$

$$\text{c) } 50 \times 7 = \boxed{350}$$

$$\text{f) } 350 \div 7 = \boxed{50}$$

- 7 Mr Jones buys 12 large jugs.

The total cost of the jugs is £240

How much does each jug cost?

Each jug costs $\boxed{£20}$

How did you work this out?



- 8 Complete the number sentences.

$$\text{a) } 3 \times \boxed{70} = 210$$

$$\text{c) } 4 \times 90 = \boxed{360}$$

$$\text{b) } 240 \div 6 = \boxed{40}$$

$$\text{d) } 120 \div \boxed{60} = 2$$

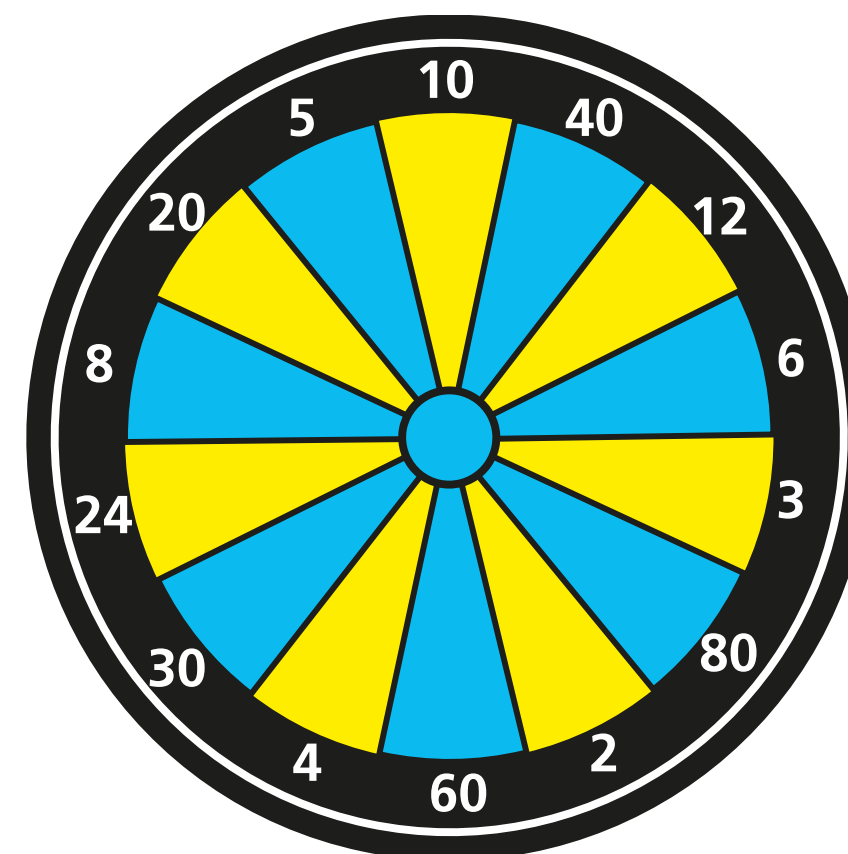
- 9 Huan throws two darts at the dartboard.

He multiplies the numbers he hits together.

Huan's score is 240

What two numbers could the darts have landed in?

E.g. $\boxed{40}$ and $\boxed{6}$



How many different answers can you find?

