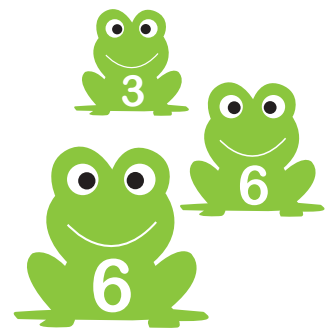
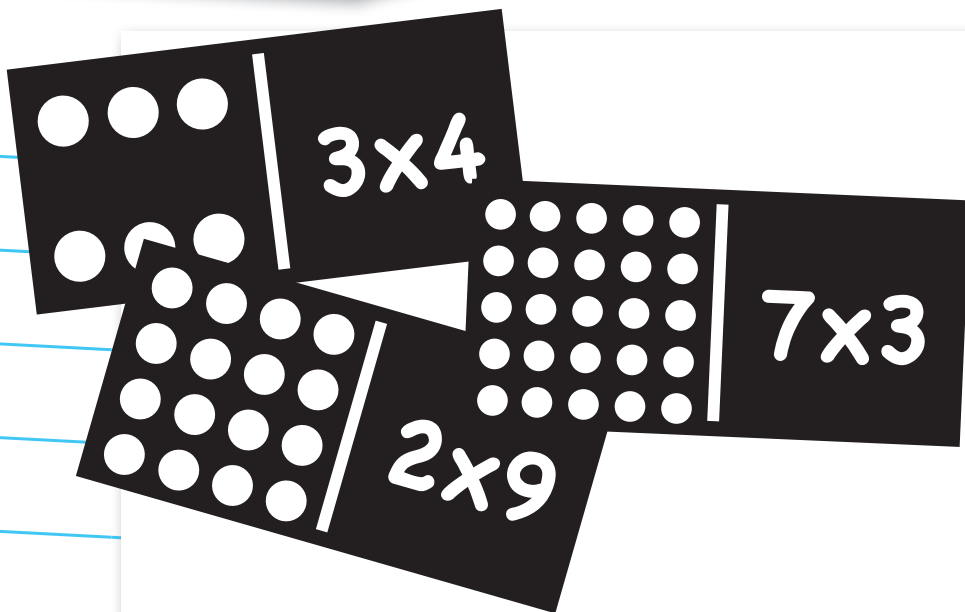
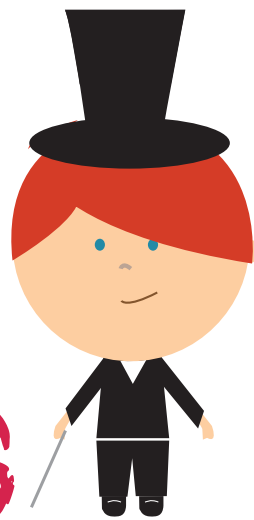
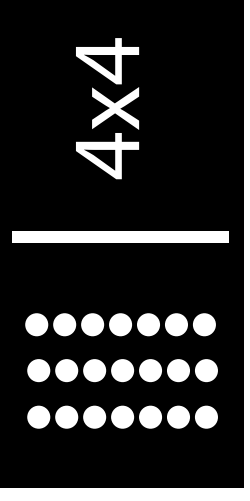
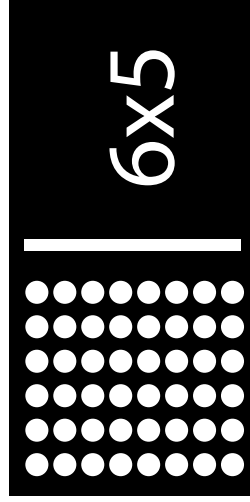
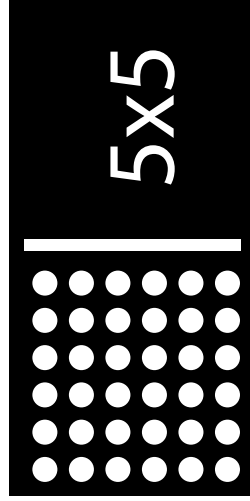
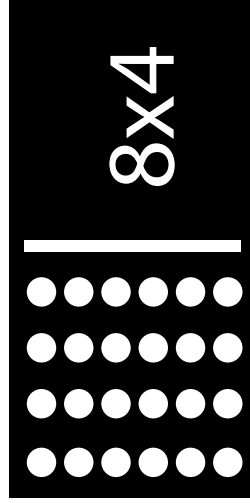
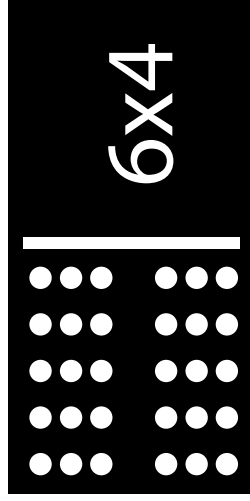
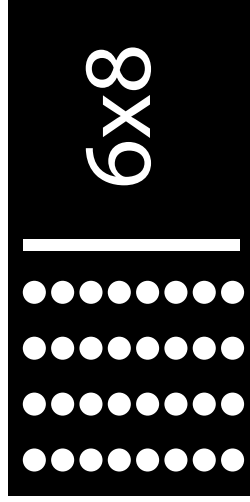
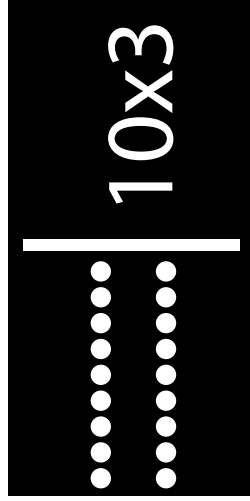
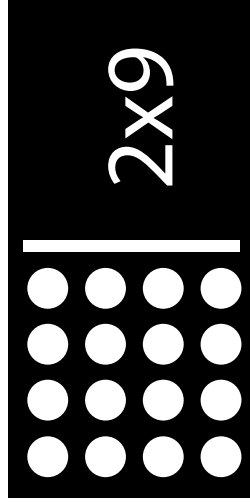
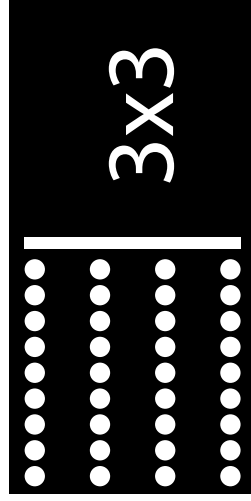
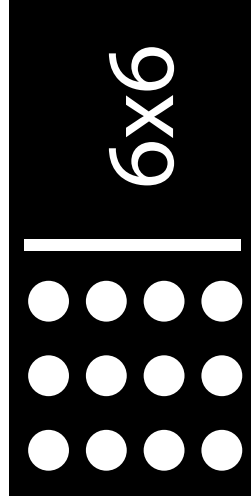
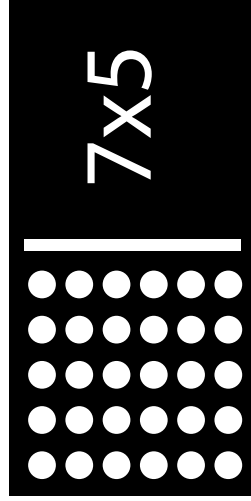
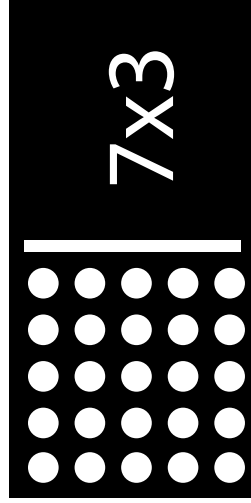
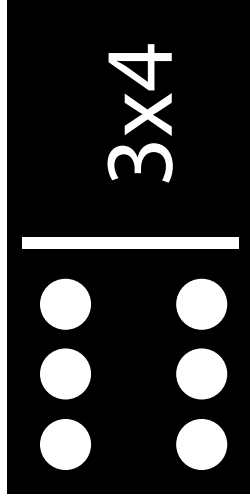
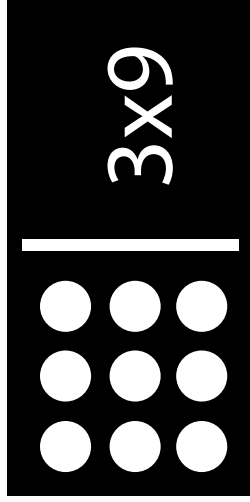
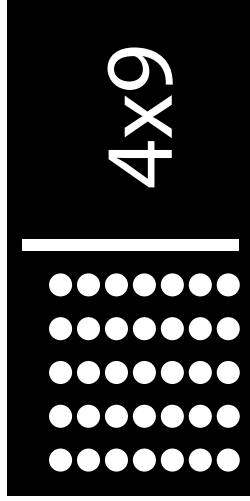
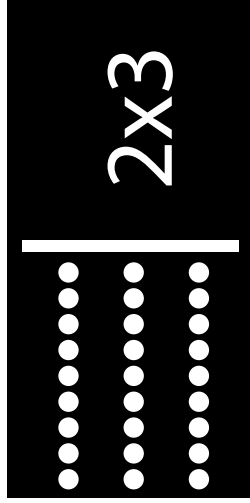




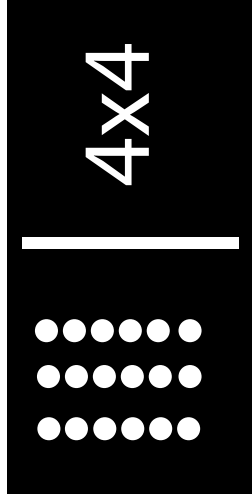
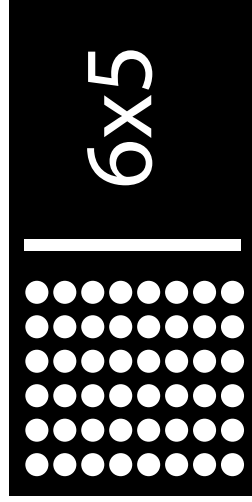
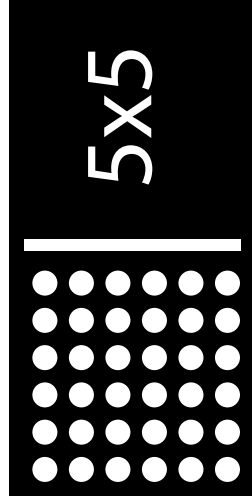
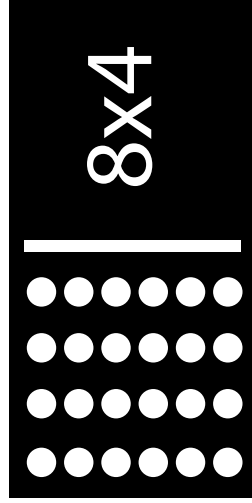
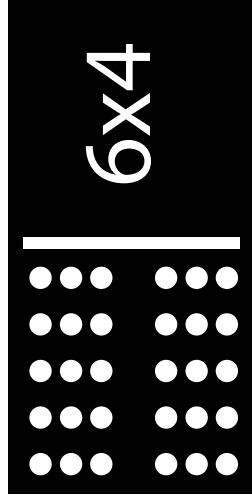
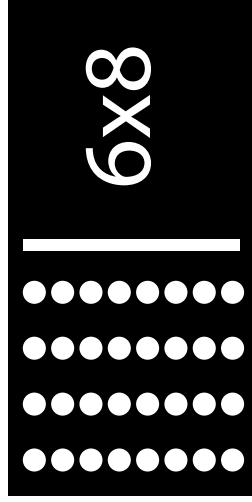
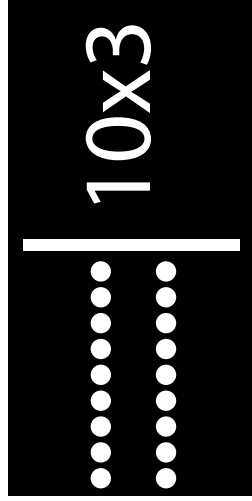
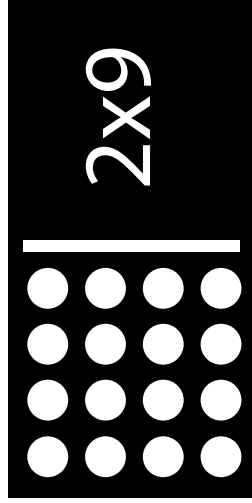
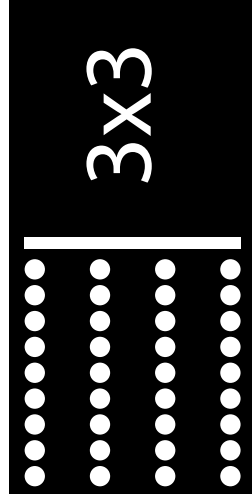
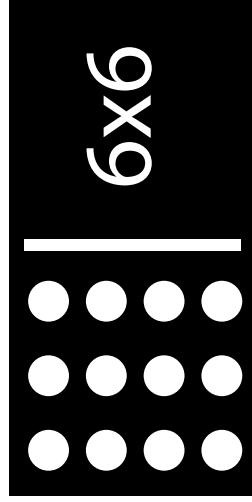
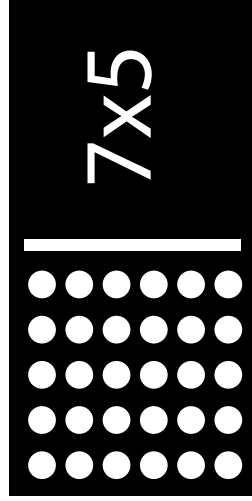
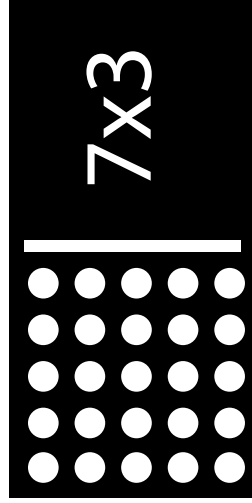
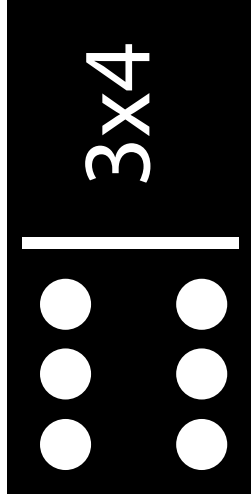
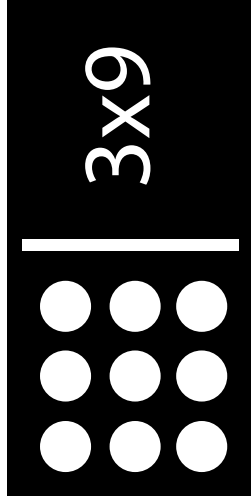
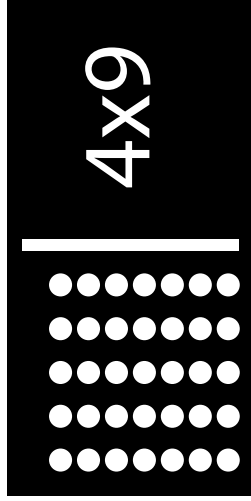
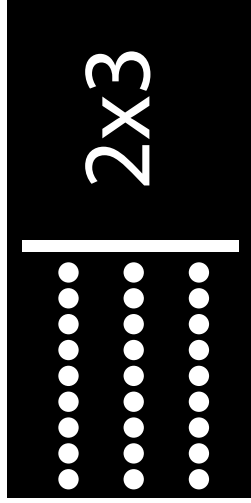
Times Tables Funpack



Times Tables Dominoes



Times Tables Dominoes



5x table puzzle 1



On a stall at the fair you are given balls to throw into these cups. Each time a ball falls into a cup, you get the number of points written on the side of the cup. You need to try to get as high a score as possible.

Five children got the following scores. Which cups must they have thrown their balls into to get these scores?

The first one is done for you:

CHILD	SCORE	CUPS BALL WAS THROWN INTO
Maya	12	5, 5, 2
Ben	20	
Akram	11	
Josh	17	
Sam	10	

Could any of the scores above have more than one possible combination? Which ones? What are the combinations?

Answer:

Child	Score	Cups ball was thrown into
Maya	12	5, 5, 2 OR 2, 2, 2, 2, 2
Ben	20	5, 5, 5, 5 OR 5, 5, 2, 2, 2, 2
Akram	11	2, 2, 2, 5
Josh	17	5, 5, 5, 2 OR 5, 2, 2, 2, 2, 2
Sam	10	5, 5 OR 2, 2, 2, 2, 2

5x table puzzle 2

Josh is given two bags full of 5p coins.



The total amount of money in both the bags is 30p. How much money could be in each bag? Work out all the possible combinations in the table below:

1ST BAG	2ND BAG



It might be helpful to use actual 5p coins to help your child with this puzzle. First, get them to count out 30p in 5ps. Then ask them to find all the different ways of splitting the 5ps into two bags, recording in the table as they go. Remind them to keep telling you how much they are putting in each bag, each time, by counting the coins in 5s.

Answer:
1ST BAG
5p
5p, 5p (10p)
5p, 5p, 5p (15p)
5p, 5p, 5p, 5p (20p)
5p, 5p, 5p, 5p, 5p (25p)
5p, 5p, 5p, 5p, 5p, 5p (30p)
2ND BAG
5p, 5p, 5p, 5p, 5p (25p)
5p, 5p, 5p, 5p (20p)
5p, 5p, 5p (15p)
5p, 5p, 5p (10p)
5p

5x table puzzle 3



Karen is given three darts. She throws them at the boards above.

Which **three** numbers would she need to hit, to get the following scores? She could hit the same number more than once.

For each score, there may be only one answer or there may be several possible answers.

SCORE	3 NUMBERS HIT
30	
55	
15	
40	
45	

Answer:
SCORE
30
55
15
40
45

10, 10, 10 OR 5, 10, 15 OR 20, 5, 5
25, 20, 10 OR 20, 20, 15 OR 25, 15, 15
5, 5, 5
5, 15, 20 OR 5, 10, 25 OR 15, 15, 10 OR 20, 10, 10
25, 15, 5 OR 20, 15, 10 OR 20, 20, 5 OR 10, 10, 25 OR 15, 15, 15

6x table puzzle 1

Faye is trying to crack the code to open this safe in the wall.
She has been given the following clues:

The code has four digits

The first and second digits add up to
make a multiple of 6

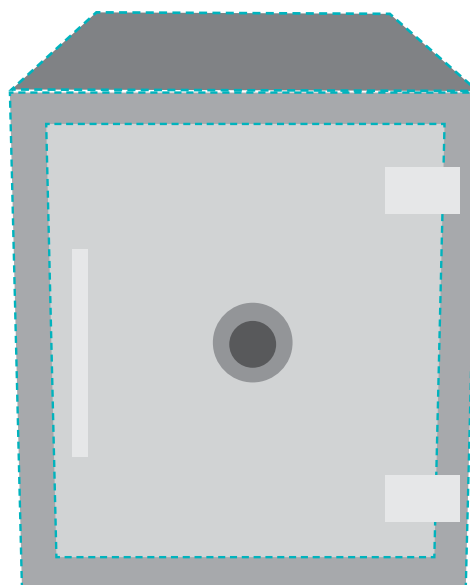
The third and fourth digits add up
to make the same multiple as above

There is a difference of 6 between
the first and second digits

The third and fourth digits
are the same

There are no zeros in the code

The first digit is the smallest of
the four



Work out what the code is and put the answer in the boxes.

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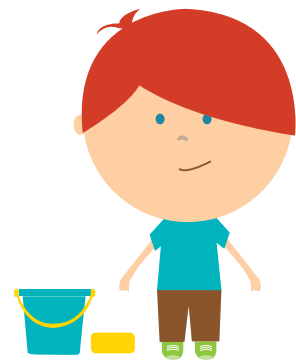
Answer: The code is 3966

6x table puzzle 2



On this stall at the fair, you have a bucket of 5 wet sponges to throw at the frogs. You win a prize if you get a score of 18 or more.

This table shows the hits and misses and final scores five children made. See if you can complete the table:



CHILD	HIT	MISSSES	WHICH FROGS HIT?	TOTAL SCORE	PRIZE WON?
Jack	3	2		15	
Isobel		4		3	
Nkechi				27	
Louise		2		15	
Robert			6, 6, 3, 3		

Answer:

NAME	HITS	MISSSES	WHICH FROGS HIT?	TOTAL SCORE	PRIZE WON?
Jack	3	2	6, 6, 3	15	No
Isobel	1	4	3	3	No
Nkechi	5	0	6, 6, 6, 6, 3	27	Yes
Louise	3	2	6, 6, 3	15	No
Robert	4	1	6, 6, 3, 3	18	Yes

Times Tables Right or Wrong

Suggested age range 7+ (from year 3)

Number of players 2 (one caller and one player)

How to prepare the game

- Print out the tables on the next page.

How to play the game

One player needs to call out the times table number sentences on the tables on the next page. The other player says 'right' or 'wrong' depending on whether they think the caller has read out a correct sentence.

Every time the player correctly says 'right' or 'wrong', the caller gives them a tick or cross in the box next to the number sentence (they have the answers already on the table).

When you have finished, swap roles and play again on the second table. You can also make up your own tables to play with.

How does this game support learning?

Instant recall is vital in times tables; children need to know the correct answers without stopping to think about them. This activity can be played at speed and is a different way to test knowledge and confidence.

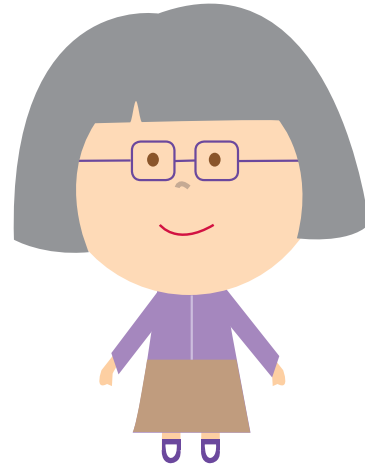
Right or Wrong?

21

	Right or Wrong?	Tick box if player is correct
$3 \times 4 = 15$	Wrong	
$5 \times 5 = 30$	Wrong	
$3 \times 3 = 9$	Right	
$7 \times 4 = 28$	Right	
$3 \times 9 = 28$	Wrong	
$9 \times 10 = 90$	Right	
$7 \times 7 = 42$	Wrong	
$8 \times 11 = 90$	Wrong	
$5 \times 6 = 30$	Right	
$12 \times 2 = 24$	Right	

	Right or Wrong?	Tick box if player is correct
$3 \times 4 = 15$	Wrong	
$5 \times 5 = 30$	Wrong	
$3 \times 3 = 9$	Right	
$7 \times 4 = 28$	Right	
$3 \times 9 = 28$	Wrong	
$9 \times 10 = 90$	Right	
$7 \times 7 = 42$	Wrong	
$8 \times 11 = 90$	Wrong	
$5 \times 6 = 30$	Right	
$12 \times 2 = 24$	Right	

6x table puzzle 3



Mrs Brown the Baker makes 6 cakes on Monday.

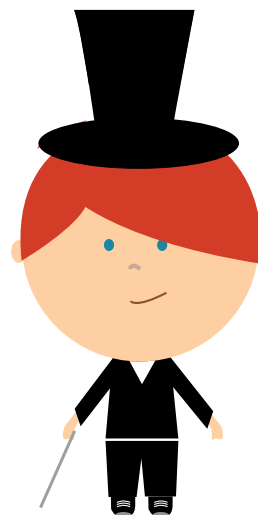
Each day after that, she makes 6 more cakes than she made the previous day. She stops baking once she has made a total of 168 cakes.

How many days does she bake for altogether?

Answer: Monday 6, Tuesday 12, Wednesday 18, Thursday 24, Friday 30, Saturday 36, Sunday 42. If you total these numbers, you get 168, so Mrs Brown bakes for seven days altogether.

7x table puzzle 1

Louise has to work out how many of each object Martin the Magician has in his box of tricks. It contains: magic wands, rabbits, packs of cards, rubber balls, handkerchiefs and hoops. He has a different number of each and each number is a multiple of 7 smaller than 84. He gives her the following clues:



There are twice as many magic wands as there are rabbits.

The number of hoops is also a multiple of 11.

There are 7 more handkerchiefs than packs of cards.

The number of rubber balls is half the number of packs of cards.

The number of rabbits is also a multiple of 5.

The total number of the handkerchiefs and packs of cards is the same as the number of rabbits.

Cut out the multiples of 7 below and then practise trying different combinations in the table to help you work this out:



Magic wands	
Rabbits	
Packs of cards	
Rubber balls	
Handkerchiefs	
Hoops	

Answer: Magic Wands 70; Rabbits 70; Packs of cards 14; Rubber balls 7; Handkerchiefs 21; Hoops 77

Times Table Pairs

5×6

8×2

50×2

10×2

4×4

10×5

5×4

3×4

7×4

6×10

10×4

6×4

2×6

8×3

25×4

8×5

14×2

25×2

3×10

12×5

Times Table Pairs: Answers

5×6 and 3×10 both equal 30

8×2 and 4×4 both equal 16

50×2 and 25×4 both equal 100

10×2 and 5×4 both equal 20

10×5 and 25×2 both equal 50

3×4 and 2×6 both equal 12

7×4 and 14×2 both equal 28

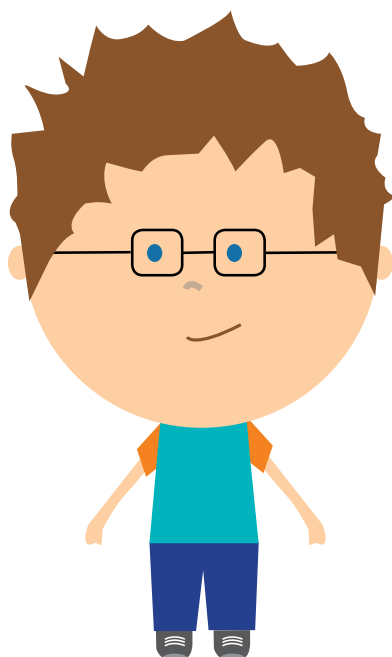
6×10 and 12×5 both equal 60

10×4 and 8×5 both equal 40

6×4 and 8×3 both equal 24

8x table puzzle 2

Daniel washes cars for 5 days. Each day, the number of cars he washes is a multiple of 8. Every day, he washes 8 more cars than the previous day. By the end of the 5 days, he has washed a total of 240 cars. How many cars did he wash each day?

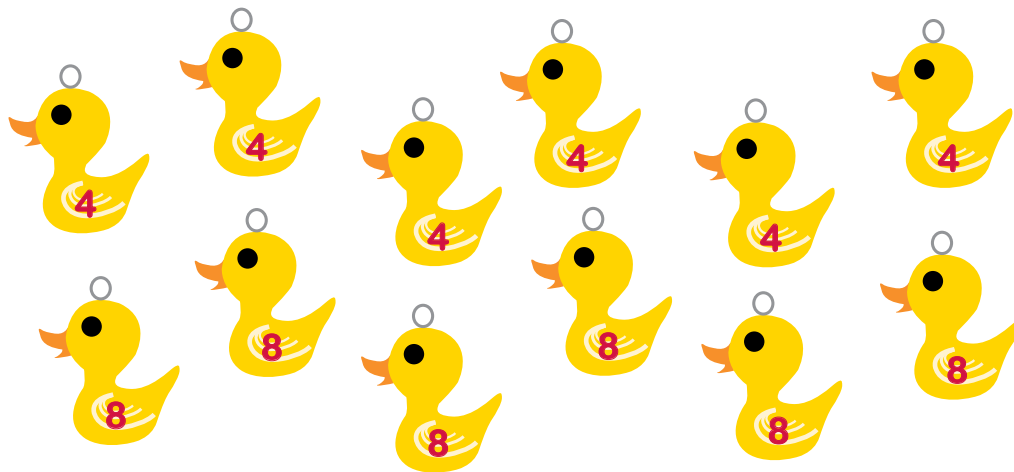


Helpful
hint:

It will help you to write down your multiples of 8 first!

Answer: Daniel washed 32 cars the first day, 40 the second day, 48 the third day, 56 the fourth day and 64 the fifth day.

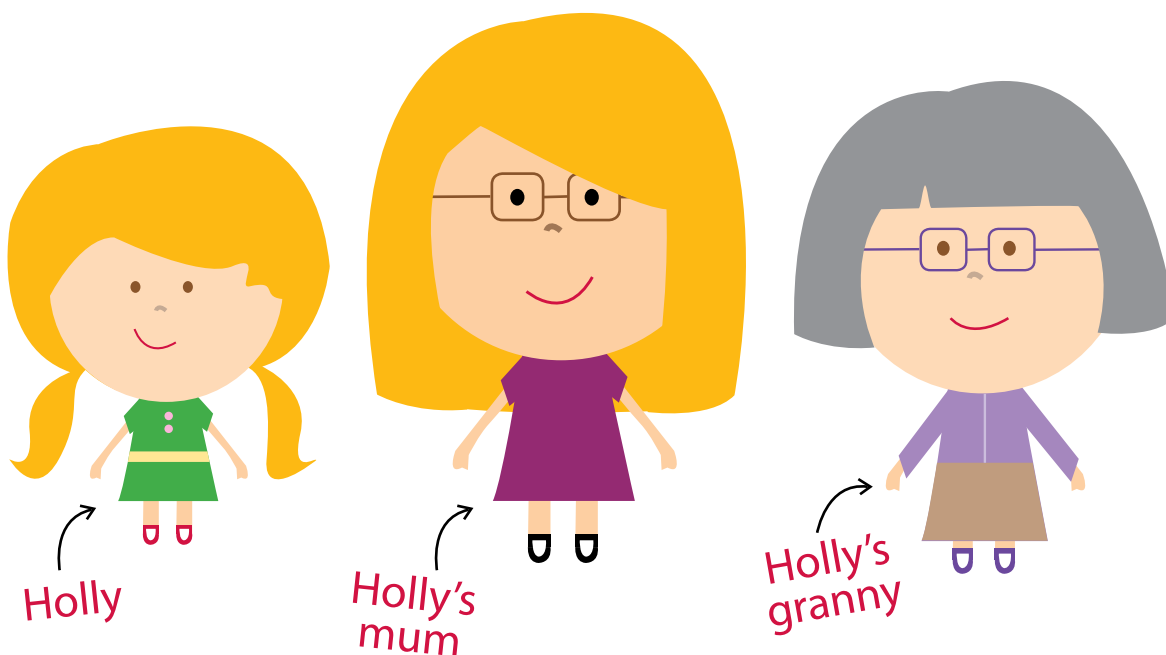
8x table puzzle 3



At the fair, Louise has to hook as many ducks out of the pond as she can in 3 minutes. She gets a score of 24. Which ducks could she have hooked out in the 3 minutes? See if you can find all the possible combinations.

Answers:
There are 4 combinations:
 $8 + 8 + 8$
 $8 + 8 + 4 + 4$
 $8 + 4 + 4 + 4 + 4$
 $4 + 4 + 4 + 4 + 4 + 4$

9x table puzzle 1



Holly is 9.

Holly's mum is 9 years older than Holly's aunt.

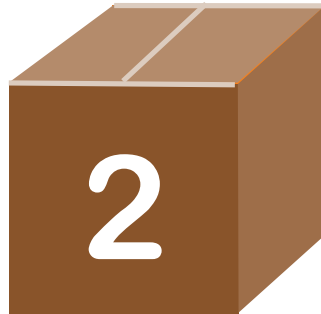
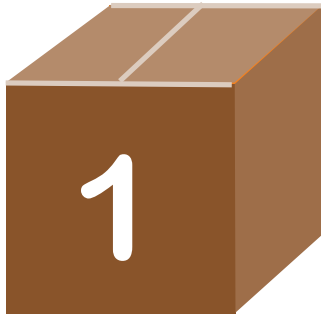
Holly's granny is 9 times the age of Holly.

Holly was born when her mum was 27.

Work out the ages of Holly's mum, aunt and granny.

Answers:
Mum is 36, Aunt is 27 and Granny is 81.

9x table puzzle 2



The weight of each box in kg is a multiple of 9 no larger than 108kg.

Box 1 weighs half of what box 2 weighs.

Box 3 weighs half of what box 1 weighs.

What could the three boxes weigh?

See if you can find all the possibilities.

Answers:
There are three possibilities:
BOX 1 BOX 2 BOX 3
18kg 36kg 9kg
36kg 72kg 18kg
54kg 108kg 27kg

9x table puzzle 3

1	2	3
8		4
7	6	5

The centre rectangle in this picture is a farmer's house. The eight rectangles around it, marked 1 – 8, are fields.

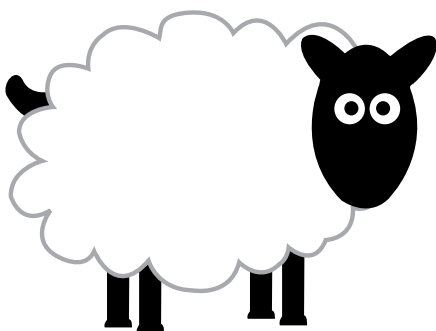
Each field contains a certain number of sheep. The number of sheep in each field is always a multiple of 9. The largest number of sheep found in a field is 27.

From the windows at the front of the house, the farmer can see fields 1, 2 and 3. He can see a total of 36 sheep.

From the windows at the right hand side of the house he can see fields 3, 4 and 5. He can see a total of 54 sheep.

From the windows at the back of the house, he can see fields 5, 6 and 7. He can see a total of 45 sheep.

From the windows at the left hand side of the house he can see fields 7, 8 and 1. He can see a total of 36 sheep.



See if you can work out how many sheep could be in each field. There will be more than one way of doing this, but you only need to find one combination.

9x table puzzle 3
Answers:
Possible combinations:

9	18	9
9		27
18	9	18

9	9	18
9		27
18	18	9

18	9	9
9		27
9	18	18

Times Tables Bingo

Suggested age range 8+ (year 4 onwards)

Number of players 3

How to prepare the game

- Cut out the two nine-square grids on the next page (or you just draw them on paper) for the players.

How to play the game

The two players need a nine-square grid each. They need to write nine numbers chosen from this list - 4, 6, 8, 10, 12, 14, 16, 18, 20, 24 - in the grid (they cannot write the same number twice).

The caller then calls out questions from the card on the next page.

If the players have the answer to the question being called, they cross them off on their grid.

The answers are on the sheet, so the caller will need to check players are crossing off the correct answers.

The first player to cross off all their numbers shouts bingo and is the winner.

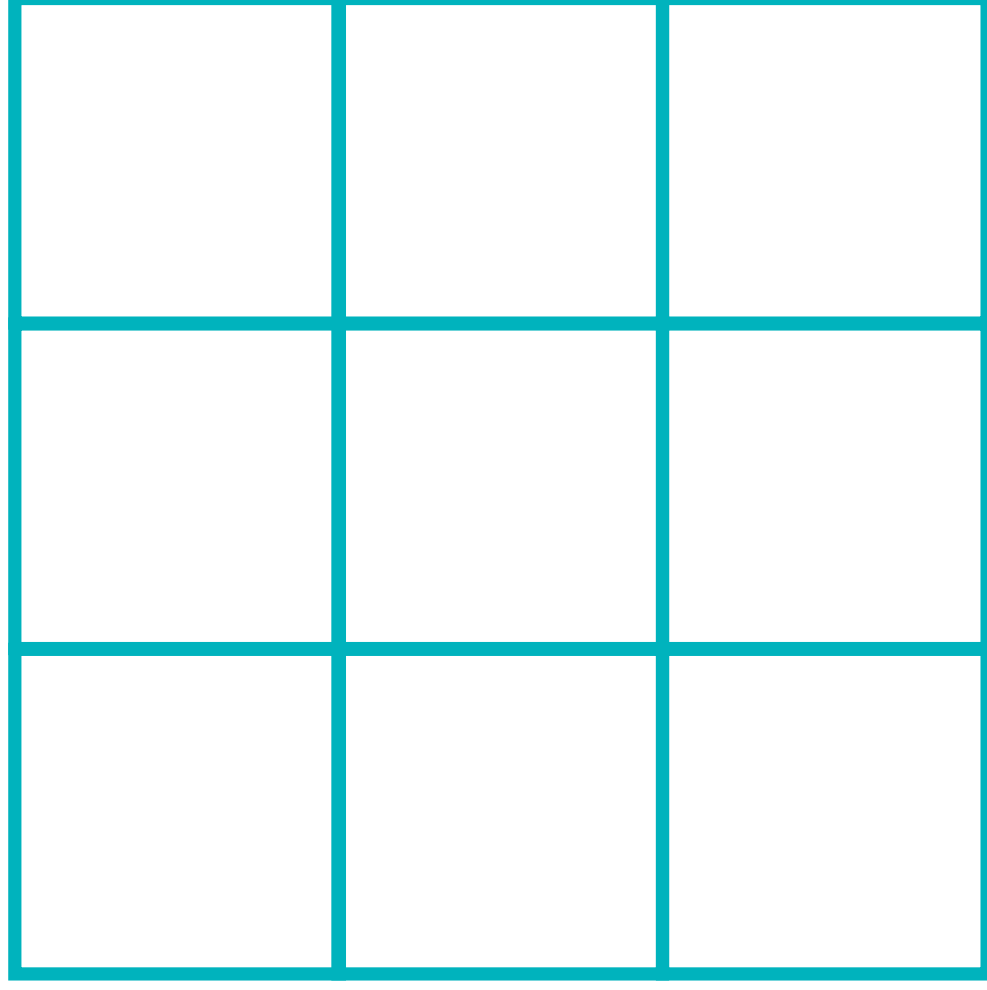
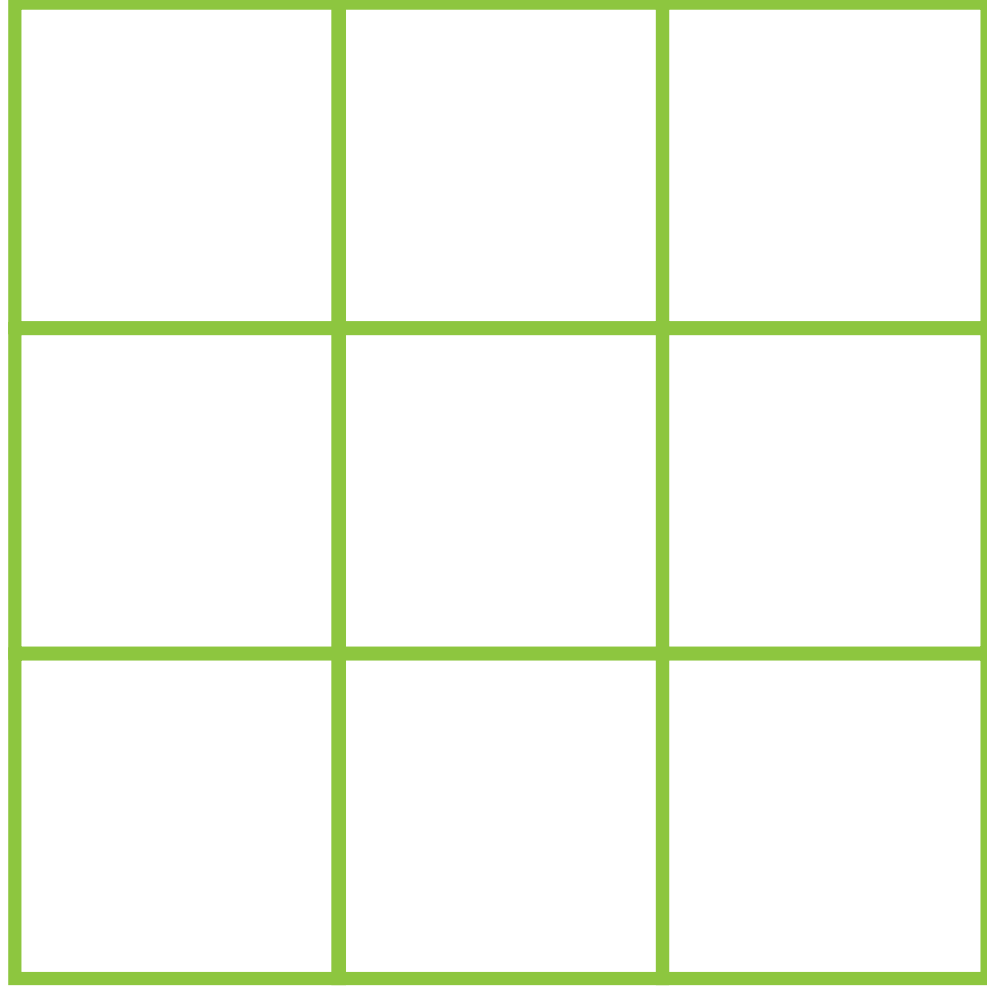
How does this game support learning?

- Make times tables drilling fun with Times Tables Bingo. You can write your own number list and caller card to test all the different tables, either one at a time or all at once.

Times Tables Bingo: caller card

3 cars are parked outside, each with 4 wheels. How many wheels are there altogether?	12
What is the perimeter of a square with sides of 4cm?	16
There are four pairs of shoes in the window of a shop. How many shoes are there?	8
6 children each eat 3 cakes. How many cakes have they eaten altogether?	18
What is 2×5 ?	10
What is 2×2 ?	4
I have bought 7 pairs of gloves. How many gloves have I got altogether?	14
What is 2×3 ?	6
I buy 6 books, each costing £4. How much have I spent?	24
What is 4×5 ?	20

Times Tables Bingo: nine-square player grids



10x table puzzle 1



Four children are given five darts each.

They have to throw the darts at the numbers above and try to get the highest score possible.

This table shows their total scores. Write down which numbers they could have hit to get these scores (there will often be more than one possible combination).

Remember that they will not always hit five numbers!

NAME	SCORE	POSSIBLE NUMBERS HIT
Carla	20	
Jane	25	
Peter	15	
Jack	30	

Answer:

NAME	SCORE	POSSIBLE NUMBERS HIT
CARLA	20	10, 10 OR 10, 5, 5 OR 5, 5, 5
JANE	25	10, 10, 5 OR 10, 5, 5, 5 OR 5, 5, 5, 5
PETER	15	10, 5 OR 5, 5, 5
JACK	30	10, 10, 10 OR 10, 10, 5, 5 OR 10, 5, 5, 5, 5

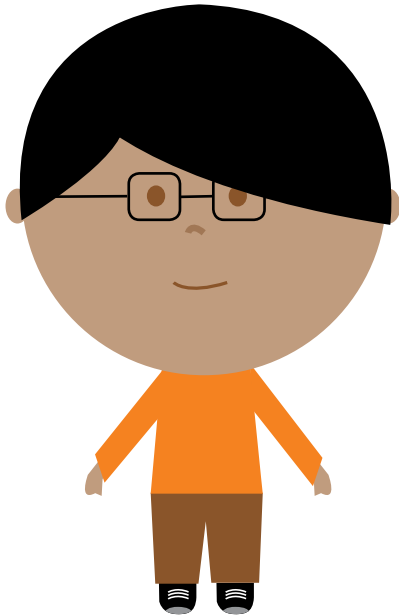
10x table puzzle 2



Sam only buys sweets on dates of the year that are a multiple of ten. Can you work out on how many days Sam buys sweets, from March to October?

Answer: March 10th, 20th, 30th, April 10th, 20th, 30th, May 10th, 20th, 30th, June 10th, 20th, 30th, July 10th, 20th, 30th, August 10th, 20th, 30th, September 10th, 20th, 30th, October 10th, 20th, 30th – so 24 days in all.

10x table puzzle 3



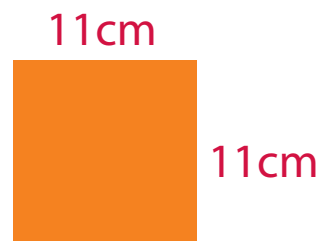
A teacher cuts up pieces of squared paper into strips that are 10 squares long. Each square measures 1cm along each side.

How many of these strips could you fit into a rectangle measuring 20cm by 60cm?

What would the surface area of this shape be?

Answer: You would be able to fit 120 strips in the shape. The total surface area would be 1200cm squared.

11x table puzzle 1



Brian buys a set of 20 square bricks that are 11cm by 11cm.

He arranges them in a 5 by 4 rectangle.

What is the perimeter of this rectangle?

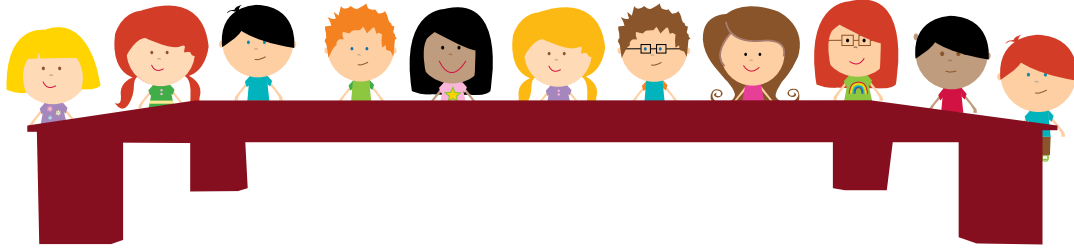
What is the area?

Helpful
hint:

Draw a picture of the tiles arranged in the rectangle to help you.

Answer:
The perimeter is 198cm, the area is 2420cm squared.

11x table puzzle 2



In the school dinners hall, each table has 11 children sat at it. There are 132 children in the hall altogether.

In the packed lunch hall, each table has 11 children sat at it. There are 99 children in the hall altogether.

How many more **TABLES** of children are there in the school dinners hall than the packed lunch hall?

Answer:
There are 9 tables in the packed lunch hall and 12 tables in the school dinners hall, so there are 3 more tables in the school dinners hall.

Jumbled Times Tables

Suggested age range 7+ (year 4 onwards)

Number of players One

How to prepare the game

- Cut out the number sentences on the following page and jumble them up.

How to play the game

- Start with a pile of jumbled up number sentences cards. How fast can you get them back into the right order?

Time yourself and see if you can beat your time with your next attempt.

To check your answers, consult the answers sheet.

How does this game support learning?

- Arranging number sentences correctly will help your child practise tricky times tables and see patterns - for example, 9×3 and 3×9 have the same answer.

Jumbled Times Tables

7				
8				
10				
9				
6				
7				
4				
9				
8				
11				

x				
x				
x				
x				
x				
x				
x				
x				
x				
x				

7				
9				
4				
3				
5				
8				
6				
5				
8				
5				

=				
=				
=				
=				
=				
=				
=				
=				
=				
=				

49				
72				
40				
27				
30				
56				
24				
45				
64				
55				

Jumbled Times Tables - answer sheet

7

x

7

=

49

8

x

9

=

72

10

x

4

=

40

9

x

3

=

27

6

x

5

=

30

7

x

8

=

56

4

x

6

=

24

9

x

5

=

45

8

x

8

=

64

11

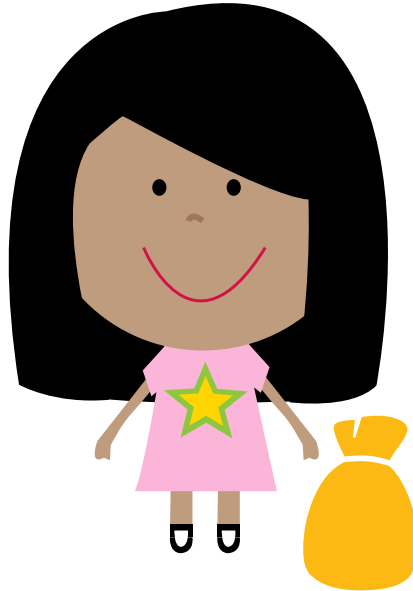
x

5

=

55

11x table puzzle 3



Louise has a bag full of 10p coins and 1p coins. There are the same number of 10p coins in the bag as there are 1p coins.

She has £1.43 altogether.

How many 10ps and 1ps are there in the bag?

Answer:
There are 13 10ps and 13 1ps.

12x table puzzle 1

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See if you can work out the four mystery numbers above with the following clues:

Each number is a multiple of 12.

The first, third and fourth numbers have two digits.

The second number has three digits.

None of the numbers are larger than 144.

Each number contains the digit 4.

The third number is half the first number.

The last number is 60 more than the third number.

Answer:
The numbers are (in this order): 48, 144, 24, 84

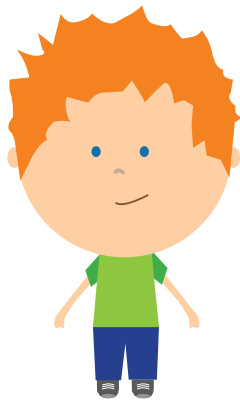
12x table puzzle 2

Cut out and re-arrange these cards into the gaps below so that the number sentence makes sense:



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

Answer:
12 x 13 = 156



12x table puzzle 3

John has a bag with blue, red, yellow, orange and green sweets in it. He's given the following clues about how many sweets of each colour there are in the bag:

Each number of sweets is a multiple of 12, no bigger than 108.

Both the number of orange sweets and the number of green sweets have the digit 4 in them.

There are less than 40 red sweets.

There are twice as many yellow sweets than red sweets.

There are more than 50 yellow sweets.

There are twice as many green sweets as orange sweets.

The number of blue sweets has three digits.

COLOUR OF SWEET	NUMBER OF SWEETS
Blue	
Red	
Yellow	
Orange	
Green	

Answer:
Colour of Sweet
Blue
Red
Yellow
Orange
Green
Number of Sweets
108
36
72
24
48

What's the Question?

Suggested age range 8+ (year 5 onwards)

Number of players 2

How to prepare the game

- Cut up the What's the Question? cards and jumble them up. Lay them face down on a flat surface.

How to play the game

This game is played backwards – so you pick a number and then you have to give a times table question that matches it. For example, if you picked up 49 you would need to say: 7×7 .

You need to play with one other player – it may be good to play with an adult so they can help you with questions if you get stuck.

Players are not allowed to use the one times table!

How does this game support learning?

- ▶ **Note to parents:** If you want to make the game harder, see if you can get your child to think about whether that is the only times table that matches the number or if there are others. Use the answers cards to check whether your child is correct.

What's the Question? cards

48

12

50

10

32

20

18

72

90

24

100

40

30

88

15

25

What's the Question? answers

$$\begin{aligned} 6 \times 8 &= 48 \\ 4 \times 12 &= 48 \\ 2 \times 24 &= 48 \\ 3 \times 16 &= 48 \end{aligned}$$

$$\begin{aligned} 8 \times 4 &= 32 \\ 2 \times 16 &= 32 \end{aligned}$$

$$\begin{aligned} 10 \times 9 &= 90 \\ 2 \times 45 &= 90 \\ 3 \times 30 &= 90 \\ 18 \times 5 &= 90 \\ 6 \times 15 &= 90 \end{aligned}$$

$$\begin{aligned} 2 \times 15 &= 30 \\ 3 \times 10 &= 30 \\ 5 \times 6 &= 30 \end{aligned}$$

$$\begin{aligned} 2 \times 6 &= 12 \\ 3 \times 4 &= 12 \end{aligned}$$

$$\begin{aligned} 10 \times 2 &= 20 \\ 4 \times 5 &= 20 \end{aligned}$$

$$\begin{aligned} 2 \times 12 &= 24 \\ 3 \times 8 &= 24 \\ 4 \times 6 &= 24 \end{aligned}$$

$$\begin{aligned} 8 \times 11 &= 88 \\ 2 \times 44 &= 88 \\ 4 \times 22 &= 88 \end{aligned}$$

$$\begin{aligned} 10 \times 5 &= 50 \\ 2 \times 25 &= 50 \end{aligned}$$

$$\begin{aligned} 3 \times 6 &= 18 \\ 2 \times 9 &= 18 \end{aligned}$$

$$\begin{aligned} 2 \times 50 &= 100 \\ 4 \times 25 &= 100 \\ 5 \times 20 &= 100 \\ 10 \times 10 &= 100 \end{aligned}$$

$$3 \times 5 = 15$$

$$2 \times 5 = 10$$

$$\begin{aligned} 8 \times 9 &= 72 \\ 36 \times 2 &= 72 \\ 24 \times 3 &= 72 \\ 18 \times 4 &= 72 \\ 6 \times 12 &= 72 \end{aligned}$$

$$\begin{aligned} 2 \times 20 &= 40 \\ 4 \times 10 &= 40 \\ 5 \times 8 &= 40 \end{aligned}$$

$$5 \times 5 = 25$$