



Year 3 Maths Home Learning | Summer Term



W.C. 11th May

Use these worksheets to work from **and not on**. All you need is a piece of paper, pencil and a ruler.

After watching the videos and having a go at the practise activities on BBC Bitesize, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Maths

Deeper Learning - You may wish to deepen your learning by looking at fractions and time!

Fractions - try this activity at home to learn more about fractions.

- 2 Use two strips of equal sized paper. Fold one strip into quarters and the other into eighths. Place the quarters on top of the eighths and lift up one quarter, how many eighths can you see? How many eighths are equivalent to one quarter? Which other equivalent fractions can you find?

Time -

Put the times/events into the correct place on the diagram.

Morning	Afternoon	Evening	Night
Breakfast	Midnight	Midday/ Noon	2 o'clock
Supper	Bedtime	Assembly	Brushing teeth

Complete the statements.

1 day = 24 hours

2 days = ___ hours

___ days = 240 hours

___ days = 120 hours

___ days = 60 hours

20 days = ___ hours

Monday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Multiplying and Dividing by 4 and 8.

Mild

$$\square \times \bigcirc = 12$$

$$\square \times \bigcirc = 4$$

$$\square \times \bigcirc = 28$$

$$\square \times \bigcirc = 40$$

$$\square \times \bigcirc = 16$$

$$\square \times \bigcirc = 36$$

Can you remember the number sentence which makes these answers in the 4 times tables?

Answers:

4 x 3

4x1

4x7

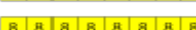
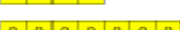
4X10

4X4

4X9

Bar modeling: eight times table (up to 12 x 8)
Maths worksheets from [urbbrainy.com](http://www.urbbrainy.com)

Try to answer these 8x table questions as quickly as possible.

-  $5 \times 8 = \square$
-  $1 \times 8 = \square$
-  $2 \times 8 = \square$
-  $10 \times 8 = \square$
-  $3 \times 8 = \square$
-  $12 \times 8 = \square$
-  $9 \times 8 = \square$
-  $11 \times 8 = \square$
-  $8 \times 8 = \square$
-  $4 \times 8 = \square$
-  $7 \times 8 = \square$
-  $6 \times 8 = \square$

Name: _____ Page 1

Answers:

40, 8, 16, 80, 24, 96, 72, 88, 64, 32, 56, 48

Use the bar models to recall your 8 times tables!

Medium

$8 \times \underline{\quad} = 16$

$8 \times \underline{\quad} = 48$

$8 \times \underline{\quad} = 32$

$8 \times \underline{\quad} = 40$

$8 \times \underline{\quad} = 56$

$8 \times \underline{\quad} = 48$

$8 \times \underline{\quad} = 80$

$8 \times \underline{\quad} = 32$

$8 \times \underline{\quad} = 8$

$8 \times \underline{\quad} = 0$

$8 \times \underline{\quad} = 40$

$8 \times \underline{\quad} = 72$

$8 \times \underline{\quad} = 88$

$8 \times \underline{\quad} = 96$

$8 \times \underline{\quad} = 88$

Answers: 8x2 8x6 8x4

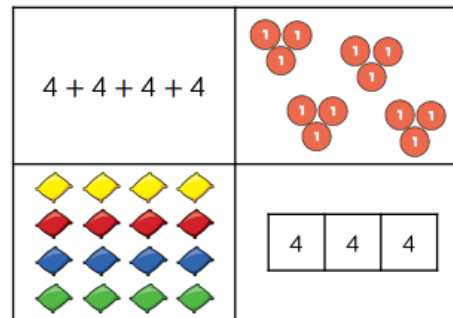
8x5 8x7 8x6

8x10 8x4 8x1

8x0 8x10 8x9

8x11 8x12 8x11

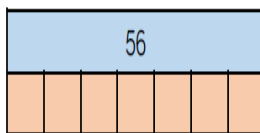
Which part below does not show counting in fours?



Explain why.

The second box as it is counting in 3s.

Complete the bar model.



Can you now create your own bar model for the number.. 64

Answer: 8x7

Spicy

Tommy has four bags with five sweets in each bag.

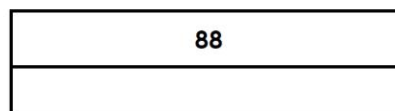
Annie has six bags with four sweets in each bag.

Who has more sweets?

How many more sweets do they have?

Draw a picture to show this problem.

5b. Li shares 88 gems into treasure chests. She puts 8 gems in each chest.



How many chests will Li have?
Prove it.

Draw a bar model to help you to solve this problem.

Answer: 4x5=20

6x4=24

Annie

4

Answer: 11 as 88 divide by 8= 11

ACTIVITY 1:

There are eight fish in each tank.
Complete the missing numbers.



a) ___ tanks contain 24 fish. ___ x ___ = 24

b) 9 tanks contain ___ fish. 9 x ___ = ___

c) ___ tanks contain 32 fish. ___ x ___ = 32

d) 12 tanks contain ___ fish. 12 x ___ = ___

Answers: A, 3. B, 72. C, 4. D, 96.

Tuesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Multiply a 2 digit number by a 1 digit number.

Mild

Complete the following calculations using place value counters:

- 34×2
- 23×3

T	O

	T	O
	3	4
x		2
	6	8

Answers: 69

Fill in the blanks and solve the calculation:

T	O

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

Answer: $22 \times 4 =$

What would the number sentence be? What number are you working with?

Medium

There are 21 chocolate bars in a vending machine.

How many chocolate bars will there be in 3 vending machines?

Use this method to solve:

21×4 and 33×3



T	O

Answers:

$$21 \times 4 = 84$$

$$33 \times 3 = 99$$

Martin completes the following calculation:

$$42 \times 2$$

Can you spot his mistake?

	T	O				
	4	2				
$\times$		2				
		4	(2	$\times$	2)	
$+$		8	(4	$\times$	2)	
	1	2				

Answer: Martin has put 8 instead of counting it as 80 as $40 \times 2 = 80$.

Spicy

Amir uses place value counters to calculate 16×4

Tens	Ones
	
	
	
	

	T	O
	1	6
x		4
	6	4

2

Use Amir's method to solve:

$$16 \times 6$$

$$17 \times 5$$

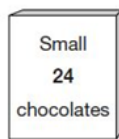
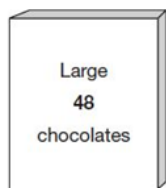
$$28 \times 3$$

Answers: $16 \times 6 = 96$ $17 \times 5 = 85$ $28 \times 3 = 84$

Q1.

Ken buys 3 large boxes and 2 small boxes of chocolates.

Each large box has 48 chocolates. Each small box has 24 chocolates.



How many **chocolates** did Ken buy altogether?

Show your method

chocolates

Answers: $48 \times 3 = 144$

$$24 \times 2 = 48$$

$$144 + 48 = 192$$

Wednesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Divide a 2 digit number by a 1 digit number.

Mild

A shop has 32 apples.

They are put into 8 equal groups.

How many apples are in each group?

Answer: 32 divided by 8=4

What would the number sentence be?

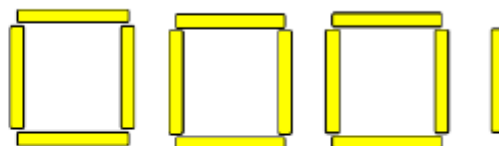
How many squares can you make with 13 lollipop sticks?

There are ___ lollipop sticks.

There are ___ groups of 4

There is ___ lollipop stick remaining.

$13 \div 4 = \underline{\quad} \text{ remainder } \underline{\quad}$



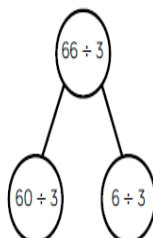
Use this method to see how many triangles you can make with 38 lollipop sticks.

Answers: 13, 3, 1 3r1

Medium

 Eva uses a place value grid and part-whole model to solve $66 \div 3$

Tens		Ones	
			
			
			



Amir makes groups of 3 gummy bears.



He makes 7 groups and has 2 bears left over.

How many gummy bears does he have altogether?

Use Eva's method to calculate:

$$69 \div 3$$

$$96 \div 3$$

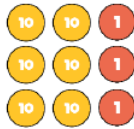
$$86 \div 2$$

Answers: 23, 32, 43

Answer: 23

Spicy

Alex uses place value counters to help her calculate $63 \div 3$



Tens	Ones
10	10 1
10	10 1
10	10 1

She gets an answer of 12
Is she correct?

Alex is incorrect because she has not placed counters in the correct columns.

It should look like this:

Tens	Ones
10 10	1
10 10	1
10 10	1

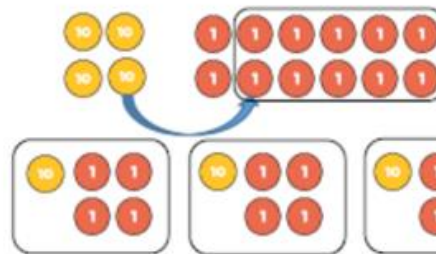
The correct answer is 21

Answer:

Answers: 16, 13, 11r4

Maybe you can find materials like counters at home to help you answer these exchanging questions below. Or you could draw it out like below.

Ron uses place value counters to divide 42 into three equal groups.



He shares the tens first and exchanges the remaining ten for ones.

Then he shares the ones.
 $42 \div 3 = 14$

Use Ron's method to calculate $48 \div 3$, $52 \div 4$ and $92 \div 8$

Thursday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Multiplication and Division Problem Solving.

Mild

What is  worth in the division below?

$$21 \div \text{teal leaf} = 3$$



Milana got half of her spellings correct. There were 16 spellings.

How many did she get right?



Answer: 7

Answer: 8



How many legs altogether do four spiders have?

There are ____ legs on each spider.

$$___ + ___ + ___ + ___ = ___$$

$$___ \times 8 = ___$$

If there are ____ spiders, there will be ____ legs altogether.

Answers: 32, 8, 8+8+8+8, 4x8, ...

Medium

2 cars have eight wheels. How many wheels do four cars have?

$$2 \times 4 = 8$$

$$4 \times 4 = ___$$

Three cows have 12 legs. How many legs do six cows have?

$$3 \times ___ = 12$$

$$6 \times ___ = ___$$

Answers: 16

4, 6x4=24

8x3

32 divided by 4

 Crayons are sold in packs of 8.
Year 3 need 48 crayons.
How many packs should be ordered?

They should order ____ packs of crayons.



Answer: 48 divided by 8=6

Spicy

There are 3 postcards in one packet.
How many postcards are there in 8 identical packets?



Charles has to arrange 32 chairs in rows.
Each row has 8 chairs.
How many rows are there?



Megan has a box of pop that are in packs.

Some packs have 4 cans in them and some packs have 8 cans in them.



Megan's box contains 64 cans of pop.

How many packs of 4 cans and how many packs of 8 cans could there be?

Find all the possibilities.

Which of the word problems can be solved using $12 \div 4$?

There are 12 bags of sweets with 4 sweets in each bag.
How many sweets are there altogether?

A rollercoaster carriage holds 4 people.
How many carriages are needed for 12 people?

I have 12 crayons and share them equally between 4 people.
How many crayons does each person receive?

I have 12 buns and I give 4 to my brother.
How many do I have left?

Explain your reasoning for each.

No, the calculation is $12 \times 4 = 48$ sweets

Yes, 12 is being grouped into 4s.

Yes, 12 is being shared equally into 4 groups.

No, the calculation is $12 - 4 = 8$ buns

Answer: 64 divided by 4 Answer:

64 divided by 8.

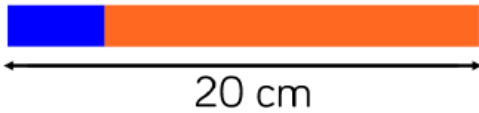
Here is a blue strip of paper.



An orange strip is four times as long.



The strips are joined end to end.



How long is the blue strip?

How long is the orange strip?

Explain how you know.

Answer:

The blue strip is 4 cm long.

The orange strip is 16 cm long.

The orange strip is 4 times as long as the blue strip, so there are 5 equal parts in total, and the length of each part is:

$20 \div 5 = 4$ cm long.

To find the length of the orange part:

$4 \times 4 = 16$ cm.

Friday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Times Table Rockstars

Have a go at your times tables on TTRockstars this week. Maybe you could battle with one of your friends? We can't wait to see how much your times tables have improved!

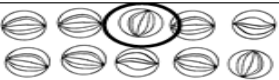
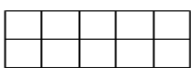


Quiz

Mild

11.	$9 \times 10 =$
12.	$14 \div 2 =$
13. What symbol is missing? $24 \div 6$ 4	
14. What symbol is missing? 4 $8 = 32$	
15. Tick (✓) if true: $5 \times 6 = 6 \times 5$ ☐ $30 \div 3 = 3 \div 30$ ☐	
16. £15 <u>is shared</u> between 3 people. How much does each person get?	
17. 4 cars each have 3 people in them. How many people are in the cars?	
18. Circle two thirds of the strawberries. 	
19. Shade in $\frac{2}{3}$ of the shape. 	
20. What is $\frac{3}{4}$ of <u>12</u> ?	

Medium/Spicy

11.	$72 \div 8 =$
12.	$12 \times 8 =$
13.	$34 \times 4 =$
14. I buy 6 packs of balloons. I have 30 balloons. How many are in each pack?	
16. What fraction <u>is</u> circled? 	
16. What fraction <u>is</u> shaded? 	
17. What is $\frac{1}{3}$ of 18?	
18. This shape is in tenths. Shade in $\frac{2}{5}$. 	
19. Add the <u>fractions</u> . $\frac{3}{9} + \frac{5}{9}$	
20. Write the <u>smallest</u> fraction. $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{2}$	

Answers for mild: 90

7
=
X
First answer
£5
First 2
First 2
9

Answers for med/spicy:

9
96
136
5
1/8
6
8/9
1/7