Math Booklet 1



Use repeated addition to find the total number of fingers.

$$5 + 5 + 5 = 15$$

3 groups of 5 is equal to 15.

Find the total of each group by using repeated addition.





c How many beads?
groups of is equal to



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Introducing multiplication – groups of 5

This is a multiplication symbol \times and it means 'groups of'. So instead of repeated addition, we can use a multiplication symbol.

5 + 5 + 5 + 5 + 5 = 25 5 × 5 = 25

Find the total of each group by using repeated addition:



Circle the shapes in groups of 5. One group is circled for you. Then complete the multiplication fact.



3

Introducing multiplication – 5 times table

Here is a skip counting pattern on a hundred grid. It shows a counting pattern of 5.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



b Finish labelling this number line and then show 7 jumps starting from 0:







Introducing multiplication – 5 times table



Δ

Write a 5 times table fact for each set of 5 cent coins. The first one has been done for you.







Times tables are a set Now answer the mixed up 5 times table. 5 of multiplication facts from 1 to 10 based on **a** 2 × 5 = **b** 8 × 5 = multiplying by the same number each time. Write the answers for **d** 10 × 5 = **c** 9 × 5 = the 5 times table. $1 \times 5 =$ **e** 3 × 5 = f 6 × 5 = 2 × 5 = 5 × 5 = g 7 × 5 = h 3 × 5 = i 1 × 5 = $4 \times 5 =$ j $4 \times 5 =$ Write the missing number in each 5 times 5 × 5 = 6 table fact. $6 \times 5 =$ × 5 = 35 b $\times 5 = 20$ а $7 \times 5 =$ $\times 5 = 50$ С d × 5 = 15 8 × 5 = $\times 5 = 40$ \times 5 = 10 е f 9 × 5 = $10 \times 5 =$ $\times 5 = 30$ \times 5 = 45 g h

Introducing multiplication – 10 times table

If you can skip count in 10s, you know your 10 times table.



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Introducing multiplication – multiplying any number by 10

When we multiply any number	Hundreds	Tens	Ones	
by 10, a zero goes in the ones column and the digits all move			2	
one space along to the left.		2	0	2 × 10 = 20

Show how the digits all move along when they are multiplied by 10 and write the answers below:



Connect these × 10 facts to the answers:





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Introducing multiplication – multiplying numbers by 0 and 1

Any number multiplied by 1 always equals the same number.





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Counting in 2s will help you know many times table facts.





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Multiplication facts – 2 times table



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Multiplication facts – 4 times table



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Multiplication facts – 4 times table



4

Here is a half of a hundred chart:

- **a** Circle the counting pattern of 2s. Cross the counting pattern of 4s.
- **b** What do you notice?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Complete the matching × 2 and × 4 facts:

a $6 \times 2 = 12$ and $3 \times 4 = 12$



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Multiplication facts – 3 times table

Practise your 3 times table.

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Multiplication facts – 3 times table



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Practise your 6 times table. Did you know that we can use \times 6 for short? So \times 6 just means 6 times table, just as \times 3 means 3 times table.



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Multiplication facts – 6 times table



	× 5	Build up by	× 6
а	3 × 5 = 15	3	3 × 6 = 18
b	2 × 5 = 10		
С	7 × 5 = 35		
d	4 × 5 = 20		
е	6 × 5 = 30		
f	9 × 5 = 45		





Division – sharing and grouping

Division is when we make fair shares. If we share these 6 star stickers

equally between 2 kids, they each get 3 star stickers. We call these fair shares because each share is equal.



Share the items equally in each picture by drawing lines to connect them. Write how many are in each share.



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Division – sharing and grouping



Draw a picture to show 7 groups with 5 in each share.

How many in total?





Division – the division symbol

This is a division symbol ÷

So instead of saying 'Share 12 tennis balls fairly between 2 tennis players. How many balls do they each get?'

We can write: $12 \div 2 = 6$

This says 12 divided by 2 is 6. It means that there are 2 groups of 6.

Write the division facts using the division symbol for each picture:



Solve each of these division problems:

- a Share 15 books among 3 shelves. How many books are on each shelf?
- **b** Share 20 oranges between 5 baskets. How many are in each basket?

÷ =

=

÷

c Out of a pile of 36 coloured pencils, 6 go into each pot. How many pots are needed?





Division – linking multiplication and division facts



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Division – linking multiplication and division facts

Play this memory game with a partner. The aim of this game is to find pairs of matching multiplication and division facts. Each player needs a copy of this page and to cut out their cards. Players join their cards together, shuffle and lay them face down. Take turns in turning over a pair of cards. If they match the player keeps the pair, if they don't match, they must be placed back in the same position. The winner is the player with the most pairs.



with the most pairs.	
16 ÷ 4	4 × 4
20 ÷ 4	4 × 5
12 ÷ 2	2 × 6
21 ÷ 3	3 × 7
8 ÷ 4	2 × 4
18 ÷ 2	2 × 9





Highest product

This is a game for two players. You will need a pack of playing cards but just the cards with numbers on them. You will also need a copy of this page so you can use the table to keep score.



apply



Shuffle the cards well and deal them evenly so you each get 18 cards. Player 1 turns over two cards and finds the product by multiplying these together. Player 2 does the same. The highest answer wins the round and

highest answer wins the round and scores a point. Use the table below to keep track of your scores.



Player 1	Player 2





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Multiplication concentration

apply



This is a game for two players. Copy this page and page 35, and then cut out all the cards.





Shuffle the cards well and lay them out face down in an array in two groups. The rectangles are the questions, the squares are the answers. Players take turns turning over one of each card. If they can make a multiplication fact, the player keeps the pair. Keep playing until there are no cards left. The winner is the player with the most matching pairs.

,,			
4 × 8	2 × 9	7 × 5	3 × 3
6 × 4	9 × 3	4 × 4	5 × 8
4 × 5	8 × 8	3 × 5	8 × 9
7 × 6	6 × 6	4 × 7	9 × 5
5 × 5	8 × 6	7 × 2	5 × 10

Multiplication concentration apply						
3 ×	73×	- <i>-</i> ~ 10	copy			
4 ×	99>	< 7 8	3 × 7			
= 32	= 18	= 35	= 24	= 27		
= 30	= 20	= 21	= 15	= 42		
= 36	= 28	= 25	= 48	= 14		
= 72	= 56	= 40	= 45	= 63		
= 9	= 50	= 16	= 36	= 64		

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Multiplication and Division

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Product bingoapplyImage: Getting readyThis is a game for four players. Each player needs a copy of this page and 5 counters. The group needs 2 dice. Make extra copies of this page so you can play again.Image: Getting of the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be the caller. The other players fill their grid the player to be player to be the caller. The other players fill their grid the player to be p

Choose one player to be the caller. The other players fill their grid with numbers from this list: 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 16, 18, 20, 24, 25, 30 and 36.

The caller rolls the dice and calls out a times table fact based on the numbers rolled. For example, if they roll a 6 and a 5, they would say 6×5 . If a player has 30 in their grid, they place a counter on the number. The winner is the first player to get rid of all their counters.