Maths

Multiplication and Division

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Calculations with 0 and 1

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Aim

- I can multiply 0 and 1 and divide by 1.

Success Criteria

- I know different words for the number 0 and understand what it represents.
- I can use drawings and objects to show why multiplying by 0 or 1 is different from adding and subtracting 0 or 1.
- I can write rules for multiplying by 0 or 1 and dividing by 1.
- I can use what I have learnt to solve word problems.

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Corners

Look around the room. Who can find the labels **multiplication**, **division**, **addition** and **subtraction**?

You will be shown a word or problem to read.

If you think the word means 'subtraction' or you need to use subtraction to solve the problem, then go and stand silently in that corner.

Are you ready? Here we go...

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Corners

share

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Corners

sum of

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Corners

Find the Product of 3 and 6.

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Corners

Split the chocolate bar into sets of 4 squares. How many sets do you have?

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Corners

Reduce the Price of the Cap by £3.

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Corners

Calculate
6 lots of 8.

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Corners

Put 24 children into groups of 6. How many groups are there?

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Find the total
Of 7 and 34.

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You have 27 sweets.
increase the number
of sweets by 7.

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Corners

If there are 22 children
on the football pitch
and three are sent off,
how many children
are left playing football?

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Zero

0

How many words can you think of for this number?

Show me 0 fingers.

Shoe me 0 _____

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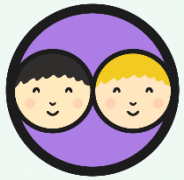
Adding and Subtracting 0



Use the resources on your tables to make 4 plus 0 = 4.

Can you make a word problem to go with it?

Next make 6 – 0 = 6.

Can you say this number sentences in different ways using the words;

take away, **subtract**, **less than** or **minus**?

Can you make a word problem to go with it?

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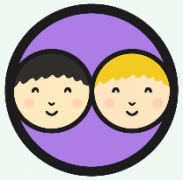
Make a Rule



Write a rule for adding or subtracting 0.

If you add or subtract 0 from a number, the answer is always the number that you started with.

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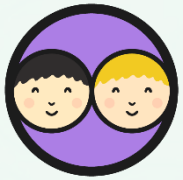
Multiplying by 0



Is multiplying by 0 different from adding 0?

Use the resources on your tables to make

7 x 0 = 0 and 0 x 7 = 0

This is the same as

0 + 0 + 0 + 0 + 0 + 0 + 0 = 0

When multiplying by 0 you have nothing to begin with.

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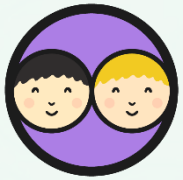
Make a Rule



Write a rule for multiplying by 0.

If you multiply a number by 0 the answer is always 0 because you have nothing to multiply.

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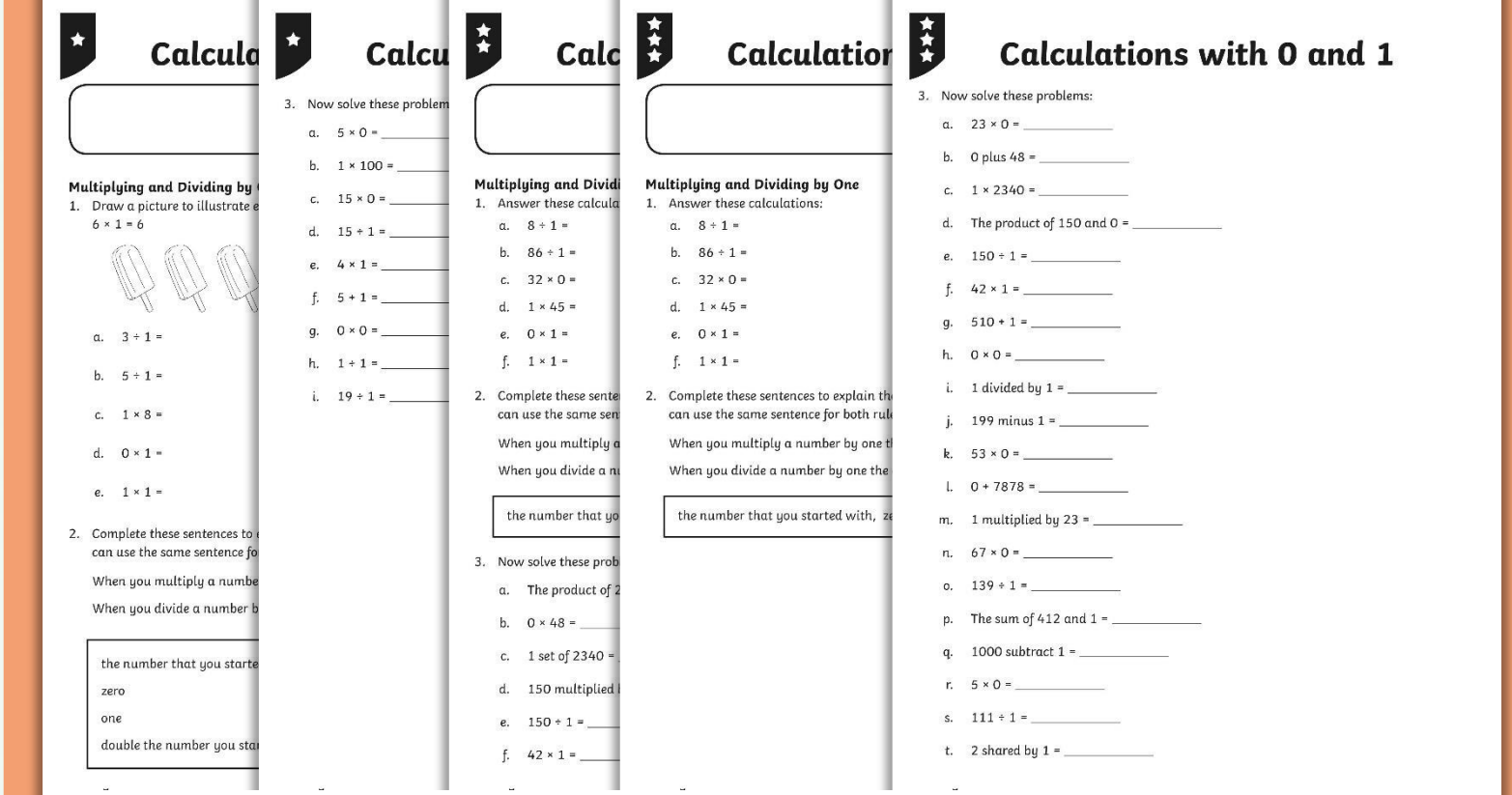
Calculations with 0 and 1



Calcula

Multiplying and Dividing by

1. Draw a picture to illustrate e
6 × 1 = 6

a. 3 ÷ 1 =

b. 5 ÷ 1 =

c. 1 × 8 =

d. 0 × 1 =

e. 1 × 1 =

2. Complete these sentences to
can use the same sentence fo
When you multiply a numbe
When you divide a number b

the number that you starte
zero
one
double the number you sta

Calcu

3. Now solve these problem

a. 5 × 0 = _____

b. 1 × 100 = _____

c. 15 × 0 = _____

d. 15 ÷ 1 = _____

e. 4 × 1 = _____

f. 5 + 1 = _____

g. 0 × 0 = _____

h. 1 ÷ 1 = _____

i. 19 ÷ 1 = _____

Calc

Multiplying and Divid

1. Answer these calcula

a. 8 ÷ 1 =

b. 86 ÷ 1 =

c. 32 × 0 =

d. 1 × 45 =

e. 0 × 1 =

f. 1 × 1 =

2. Complete these sente
can use the same sen
When you multiply a
When you divide a nu

the number that yo

3. Now solve these prob

a. The product of 2

b. 0 × 48 = _____

c. 1 set of 2340 =

d. 150 multiplied

e. 150 ÷ 1 = _____

f. 42 × 1 = _____

Calculatior

Multiplying and Dividing by One

1. Answer these calculations:

a. 8 ÷ 1 =

b. 86 ÷ 1 =

c. 32 × 0 =

d. 1 × 45 =

e. 0 × 1 =

f. 1 × 1 =

2. Complete these sentences to explain th
can use the same sentence for both rul
When you multiply a number by one t
When you divide a number by one the

the number that you started with, ze

Calculations with 0 and 1

3. Now solve these problems:

a. 23 × 0 = _____

b. 0 plus 48 = _____

c. 1 × 2340 = _____

d. The product of 150 and 0 = _____

e. 150 ÷ 1 = _____

f. 42 × 1 = _____

g. 510 + 1 = _____

h. 0 × 0 = _____

i. 1 divided by 1 = _____

j. 199 minus 1 = _____

k. 53 × 0 = _____

l. 0 + 7878 = _____

m. 1 multiplied by 23 = _____

n. 67 × 0 = _____

o. 139 ÷ 1 = _____

p. The sum of 412 and 1 = _____

q. 1000 subtract 1 = _____

r. 5 × 0 = _____

s. 111 ÷ 1 = _____

t. 2 shared by 1 = _____

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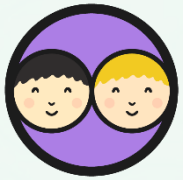
True or False



When you divide a number by 1 the answer is always 0.

FALSE

When you multiply a number by 1 the answer is the same as the number you started with.

TRUE

When you multiply a number by 0 the answer is always 0.

TRUE

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