

You need a calculator for this page, and plenty of paper!



Hi! On my calculator I divided one 1-digit number by another 1-digit number and I got the answer below.

What numbers did I type in?

0.2222222



In fact this number carries on forever. It is called a recurring decimal. Before you start, I'll give you a clue.....

Because the answer is less than one, the first digit entered on the calculator must be smaller than the second.

Write your answer here:

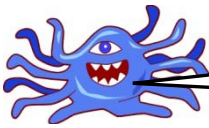
$$\square \div \square = 0.2222222$$

Now find two other sets of numbers, which when divided give the same answer. (They might not be 1-digit numbers!)

$$\square \div \square = 0.2222222$$

$$\square \div \square = 0.2222222$$

Calculator patterns (1)
Maths worksheets from mathsblog.co.uk



Find three ways of reaching these answers by division.

0 . 1 1 1 1 1 1 1

$\square \div \square$

$\square \div \square$

$\square \div \square$

0 . 3 3 3 3 3 3 3

$\square \div \square$

$\square \div \square$

$\square \div \square$

0 . 4 4 4 4 4 4 4

$\square \div \square$

$\square \div \square$

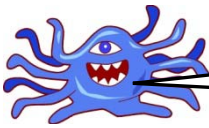
$\square \div \square$

0 . 5 5 5 5 5 5 5

$\square \div \square$

$\square \div \square$

$\square \div \square$



Find three ways of reaching these answers by division.

0.6666666

$\square \div \square$

$\square \div \square$

$\square \div \square$

0.7777777

$\square \div \square$

$\square \div \square$

$\square \div \square$

0.8888888

$\square \div \square$

$\square \div \square$

$\square \div \square$

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Answers

Page 1

1. $2 \div 9$ and any similar eg $4 \div 18$ or $8 \div 36$

Page 2

1. $1 \div 9$ and any similar eg $2 \div 18$ or $3 \div 27$

2. $3 \div 9$ and any similar eg $6 \div 18$ or $9 \div 27$

3. $4 \div 9$ and any similar eg $8 \div 18$ or $12 \div 27$

4. $5 \div 9$ and any similar eg $10 \div 18$ or $15 \div 27$

Page 3

1. $6 \div 9$ and any similar eg $12 \div 18$ or $18 \div 27$

2. $7 \div 9$ and any similar eg $14 \div 18$ or $21 \div 27$

3. $8 \div 9$ and any similar eg $16 \div 18$ or $24 \div 27$