MATHEMATICS · KINDERGARTEN TO GRADE 3

Basic long division

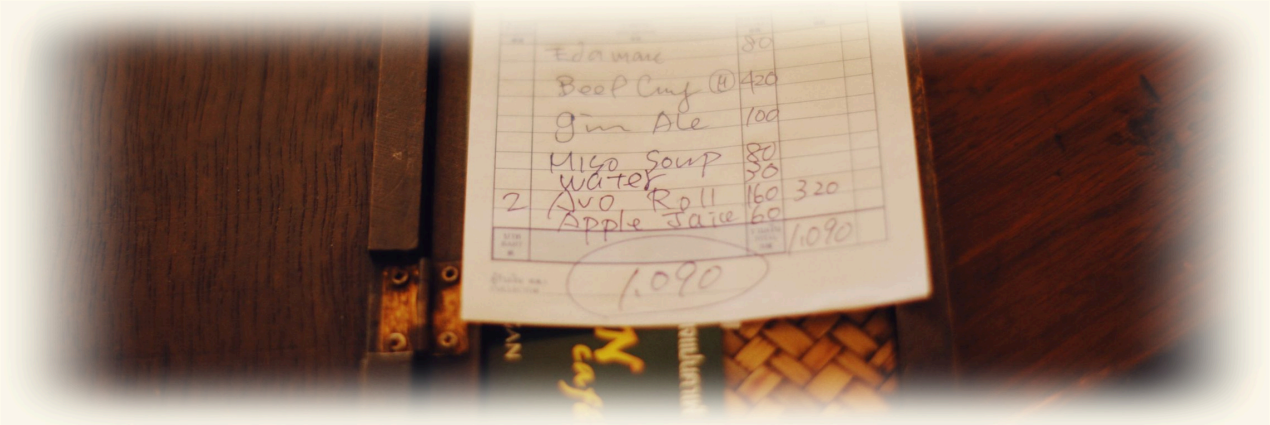
Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you split a large amount fairly. Dividing a big bill between friends, or sharing hundreds of items into equal boxes, is long division in real life. Doing it one place value at a time keeps the numbers small enough to handle, so you get an exact answer instead of a rough guess.



Rule

Long division: work one place value at a time from the left.

Divide, multiply, subtract, then bring down the next digit and repeat until no digits are left.

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Worked examples

EXAMPLE 1

Q 96 ÷ 4 = ?

SOLUTION

96 ÷ 4: 2 tens each, then 4 ones each = 24

9 tens ÷ 4 = 2 tens, remainder 1 ten

2 × 4 = 8, 9 − 8 = 1

1 ten = 10 ones

10 + 6 = 16 ones

16 ones ÷ 4 = 4

2 tens + 4 ones = 24

EXAMPLE 2

Q 75 ÷ 3 = ?

SOLUTION

75 ÷ 3: 2 tens each, then 5 ones each = 25

7 tens ÷ 3 = 2 tens, remainder 1 ten

2 × 3 = 6, 7 − 6 = 1

1 ten = 10 ones

10 + 5 = 15 ones

15 ones ÷ 3 = 5

2 tens + 5 ones = 25

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Practice questions

1. 84 cookies are shared equally among 4 classes. How many cookies does each class get? Work it out by sharing the tens first, then the ones.

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2. 96 pencils are packed into 3 boxes with the same number in each box. How many pencils are in each box?

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3. 72 stickers are shared equally among 6 friends. How many stickers does each friend get?

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4 85 cents are shared equally among 5 children. How many cents does each child get?

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5 68 apples are packed into 4 bags with the same number in each bag. How many apples are in each bag?

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6 91 pages are read over 7 days, the same number each day. How many pages are read each day? Work it out by sharing the tens first, then the ones.

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7 54 marbles are shared equally among 3 children. How many marbles does each child get?

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8 48 cupcakes are put on 2 trays with the same number on each tray. How many cupcakes are on each tray?

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9 66 chairs are set out in 6 equal rows. How many chairs are in each row?

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10 78 beads are shared equally among 3 friends. How many beads does each friend get?

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ANSWER KEY

1. 21

2. 32

3. 12

4. 17

5. 17

6. 13

7. 18

8. 24

9. 11

10. 26

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