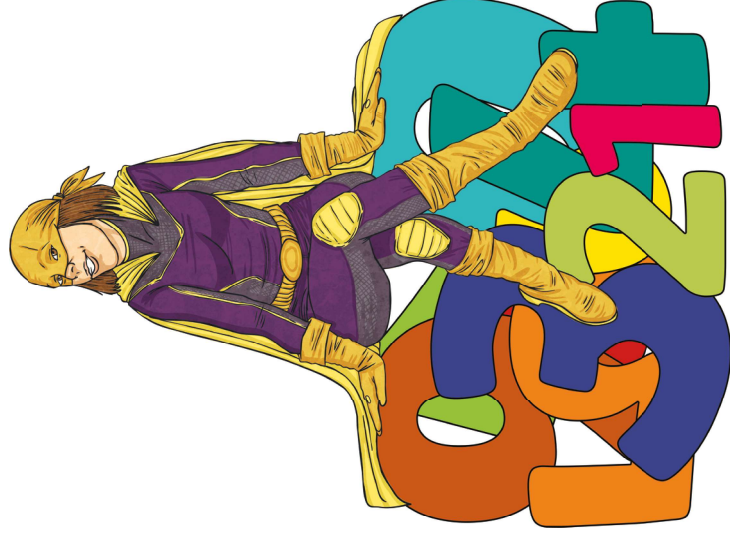


Basic Facts

Number Quest

Stage 6



Basic Facts Number Quest

This programme provides you, as parents and caregivers, with a better idea of the level that your child is operating at in regards to recalling their number knowledge. Each page will have a selection of examples for you to use with your child.

There are eight stages that your child will progress through during their time at primary school and intermediate. A description is printed on the back.

Use these suggested facts to help your child learn the knowledge they need for this stage. They need to answer each question within 3 - 4 seconds or less.

Possible ways you could use this rocket and support your child's learning are:

- oral testing, mixing them up;
- remove different parts of the question;
- playing snap or other card games to focus on the specific knowledge;
- add additional questions and examples to the questions provided in this booklet;
- change the order of the question or missing part.

Use this sheet to keep track of what you have practised, how well you did or even what time you completed it in!

| # | Description | | | |
|----|----------------------------------|--|--|--|
| 6A | Add to 100 | | | |
| 6B | Subtraction from 100 | | | |
| 6C | Making 1000 Addition Using Tens | | | |
| 6D | Subtraction from 1000 Using Tens | | | |
| 6E | 3 Multiplication Table | | | |
| 6F | 6 Multiplication Table | | | |
| 6G | Divide by 3 | | | |
| 6H | Divide by 6 | | | |
| 6I | 7 Multiplication Table | | | |
| 6J | 8 Multiplication Table | | | |
| 6K | Divide by 7 | | | |
| 6L | Divide by 8 | | | |
| 6M | Divide by 9 | | | |
| 6N | 9 Multiplication Table | | | |
| 6O | Multiply by 10, 100, 1000 | | | |
| 6P | Square Numbers | | | |

Number Quest

6A Addition to 100

$$\underline{\quad} + 49 = 100 \quad \underline{\quad} + 18 = 100$$

$$84 + \underline{\quad} = 100 \quad \underline{\quad} + 75 = 100$$

$$\underline{\quad} + 27 = 100 \quad 11 + \underline{\quad} = 100$$

$$65 + \underline{\quad} = 100 \quad 16 + \underline{\quad} = 100$$

$$\underline{\quad} + 53 = 100 \quad 78 + \underline{\quad} = 100$$

$$42 + \underline{\quad} = 100$$

$$\underline{\quad} + 83 = 100$$

$$29 + \underline{\quad} = 100$$

$$\underline{\quad} + 91 = 100$$



Overall outcomes of the different stages of Basic Facts from the NZ Numeracy Project aligned with the National Standards.

Advanced learning to prepare for High School

Stage 8 - Student knows all common factors and multiples.

To be known by the end of year 8

Stage 7 - Student knows all division facts.

To be known by the end of year 6

Stage 6 - Student knows all subtraction and multiplication basic facts.

To be known by the end of year 4

Stage 5 - Student knows all addition facts to 20 and multiplication facts for 2, 5, and 10.

To be known by the end of the second year (80 weeks)

Stage 4 - Student knows groupings within ten, teen facts and doubles.

To be known by the end of the first year (40 weeks)

Stage 3 - Student knows groupings with five and within five.

Stage 2 - Student knows groupings within five. Student recognises, writes and counts all numbers up to 10.

Stage 0/1 - Student recognises, writes and counts all numbers up to 5.

Stage 6 Summary and Support

Number Quest

Your child should recall:

- addition and subtraction facts to 20;
- multiplication facts for the two, five, ten times tables and the corresponding division facts;
- multiples of 100 that add up to 1000;
- four times tables using their knowledge of the two times tables.

Extra games to support their learning

Dice

- Roll two dice and multiply them together.
- Roll three dice, add two of the numbers together and then multiply by the third number.
- Use a 10-sided dice to add, multiply, divide or subtract.
- Multiply numbers generated by dice by 100 and add the numbers together.

6B Subtraction from 100

$$100 - 53 = \underline{\quad} \quad 100 - 88 = \underline{\quad}$$

$$100 - \underline{\quad} = 59 \quad 100 - 14 = \underline{\quad}$$

$$100 - \underline{\quad} = 26$$

$$100 - 39 = \underline{\quad}$$

$$100 - \underline{\quad} = 83$$

$$100 - 67 = \underline{\quad}$$

$$100 - \underline{\quad} = 71$$



Number Quest

6C Making 1000 – Addition Using Tens

$$\underline{\quad} + 150 = 1000 \quad \underline{\quad} + 720 = 1000$$

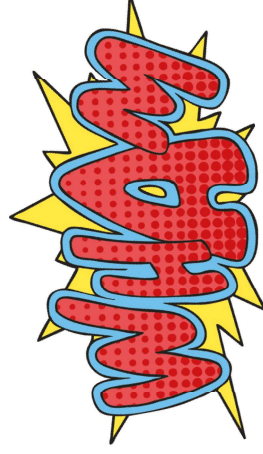
$$240 + \underline{\quad} = 1000 \quad 870 + \underline{\quad} = 1000$$

$$\underline{\quad} + 370 = 1000 \quad \underline{\quad} + 950 = 1000$$

$$490 + \underline{\quad} = 1000$$

$$\underline{\quad} + 580 = 1000$$

$$650 + \underline{\quad} = 1000$$



Answers

| 6K | 6L | 6M | 6N | 6O | 6P |
|----|----|----|----|-------|-----|
| 10 | 10 | 10 | 90 | 400 | 100 |
| 9 | 9 | 9 | 81 | 300 | 81 |
| 8 | 8 | 8 | 72 | 640 | 64 |
| 7 | 7 | 7 | 63 | 400 | 49 |
| 6 | 6 | 6 | 54 | 4000 | 36 |
| 5 | 5 | 5 | 45 | 7100 | 25 |
| 4 | 4 | 4 | 36 | 5500 | 16 |
| 3 | 3 | 3 | 27 | 4000 | 9 |
| 2 | 2 | 2 | 18 | 40000 | 4 |
| 1 | 1 | 1 | 9 | 54000 | 1 |

Answers

Number Quest

| 6F | 6G | 6H | 6I | 6J |
|----|----|----|----|----|
| 60 | 10 | 10 | 70 | 80 |
| 54 | 9 | 9 | 63 | 72 |
| 48 | 8 | 8 | 56 | 64 |
| 42 | 7 | 7 | 49 | 56 |
| 36 | 6 | 6 | 42 | 48 |
| 30 | 5 | 5 | 35 | 40 |
| 24 | 4 | 4 | 28 | 32 |
| 18 | 3 | 3 | 21 | 24 |
| 12 | 2 | 2 | 14 | 16 |
| 6 | 1 | 1 | 7 | 8 |

6D Subtraction From 1000 Using Tens

$$1000 - \underline{\quad} = 290 \quad 1000 - 220 = \underline{\quad}$$

$$1000 - 850 = \underline{\quad} \quad 1000 - \underline{\quad} = 360$$

$$1000 - \underline{\quad} = 720 \quad 1000 - 490 = \underline{\quad}$$

$$1000 - 630 = \underline{\quad}$$

$$1000 - \underline{\quad} = 540$$

$$1000 - 450 = \underline{\quad}$$

$$1000 - \underline{\quad} = 780$$



Number Quest

6D Subtraction From 1000 Using Tens

$$1000 - \underline{\quad} = 290 \quad 1000 - 220 = \underline{\quad}$$

$$1000 - 850 = \underline{\quad} \quad 1000 - \underline{\quad} = 360$$

$$1000 - \underline{\quad} = 720 \quad 1000 - 490 = \underline{\quad}$$

$$1000 - 630 = \underline{\quad}$$

$$1000 - \underline{\quad} = 540$$

$$1000 - 450 = \underline{\quad}$$

$$1000 - \underline{\quad} = 780$$



Answers

| 6A | 6B | 6C | 6D | 6E |
|----|----|-----|-----|----|
| 51 | 47 | 850 | 710 | 30 |
| 16 | 41 | 760 | 150 | 27 |
| 73 | 74 | 630 | 280 | 24 |
| 35 | 61 | 510 | 370 | 21 |
| 47 | 17 | 420 | 460 | 18 |
| 58 | 33 | 350 | 550 | 15 |
| 17 | 29 | 280 | 220 | 12 |
| 71 | 12 | 130 | 780 | 8 |
| 9 | 86 | 50 | 640 | 6 |
| 82 | | | 510 | 3 |
| 25 | | | | |
| 89 | | | | |
| 84 | | | | |
| 22 | | | | |

Number Quest

6P Square Numbers

$10 \times 10 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

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

$1 \times 1 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$



Number Quest

6E 3 Multiplication Table

$10 \times 3 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$2 \times 3 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$1 \times 3 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$5 \times 3 = \underline{\quad}$

$4 \times 3 = \underline{\quad}$



Number Quest

6F 6 Multiplication Table

$10 \times 6 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

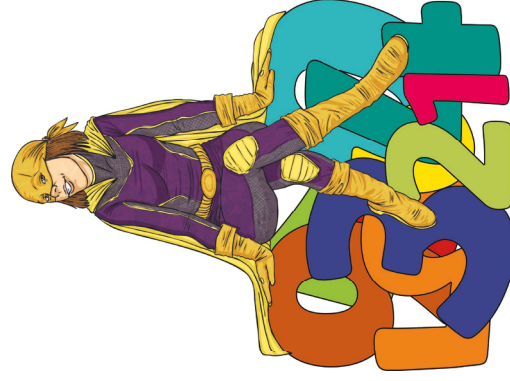
$1 \times 6 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$5 \times 6 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$



Number Quest

60 Multiply by 10, 100, 1000

$10 \times 40 = \underline{\quad}$

$1000 \times 4 = \underline{\quad}$

$10 \times 30 = \underline{\quad}$

$1000 \times 40 = \underline{\quad}$

$10 \times 64 = \underline{\quad}$

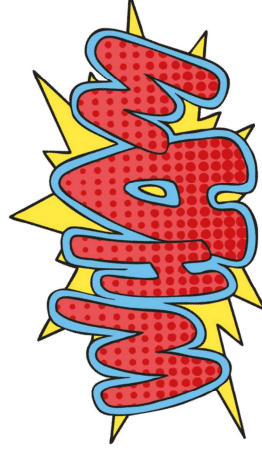
$1000 \times 54 = \underline{\quad}$

$100 \times 4 = \underline{\quad}$

$100 \times 40 = \underline{\quad}$

$100 \times 71 = \underline{\quad}$

$100 \times 55 = \underline{\quad}$



Number Quest

6N 9 Multiplication Table

$10 \times 9 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$1 \times 9 = \underline{\quad}$

$7 \times 9 = \underline{\quad}$

$6 \times 9 = \underline{\quad}$

$5 \times 9 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$



Number Quest

6G Divide by 3

$30 \div 3 = \underline{\quad}$

$9 \div 3 = \underline{\quad}$

$27 \div 3 = \underline{\quad}$

$6 \div 3 = \underline{\quad}$

$24 \div 3 = \underline{\quad}$

$3 \div 3 = \underline{\quad}$

$21 \div 3 = \underline{\quad}$

$18 \div 3 = \underline{\quad}$

$15 \div 3 = \underline{\quad}$

$12 \div 3 = \underline{\quad}$



Number Quest

6H Divide by 6

$60 \div 6 = \underline{\quad}$

$54 \div 6 = \underline{\quad}$

$48 \div 6 = \underline{\quad}$

$42 \div 6 = \underline{\quad}$

$36 \div 6 = \underline{\quad}$

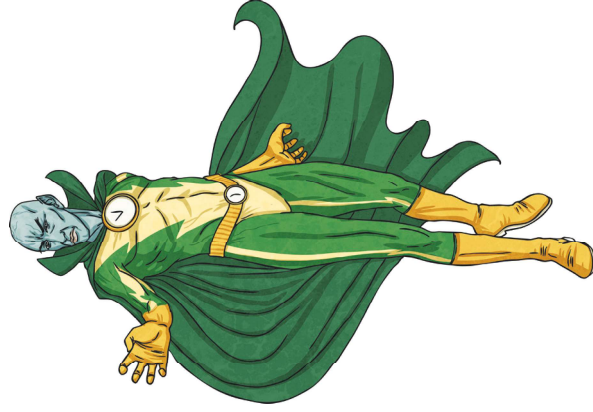
$30 \div 6 = \underline{\quad}$

$24 \div 6 = \underline{\quad}$

$18 \div 6 = \underline{\quad}$

$12 \div 6 = \underline{\quad}$

$6 \div 6 = \underline{\quad}$



Number Quest

6M Divide by 9

$90 \div 9 = \underline{\quad}$

$81 \div 9 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$63 \div 9 = \underline{\quad}$

$54 \div 9 = \underline{\quad}$

$45 \div 9 = \underline{\quad}$

$36 \div 9 = \underline{\quad}$

$27 \div 9 = \underline{\quad}$

$18 \div 9 = \underline{\quad}$

$9 \div 9 = \underline{\quad}$



Number Quest

6L Divide by 8

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

$24 \div 8 = \underline{\quad}$

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

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

$64 \div 8 = \underline{\quad}$

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

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

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

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

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



Number Quest

6I 7 Multiplication Table

$10 \times 7 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$1 \times 7 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$6 \times 7 = \underline{\quad}$

$5 \times 7 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$



Number Quest

6J 8 Multiplication Table

$10 \times 8 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

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

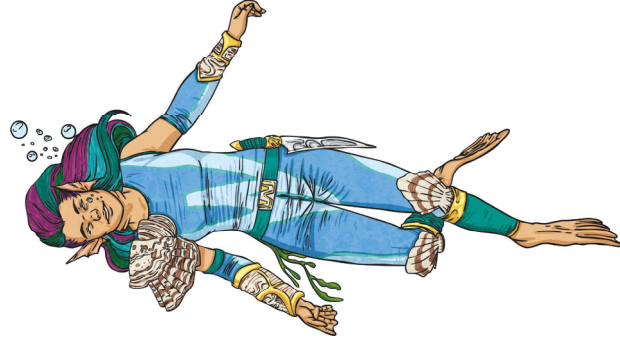
$1 \times 8 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$



Number Quest

6K Divide by 7

$70 \div 7 = \underline{\quad}$

$21 \div 7 = \underline{\quad}$

$63 \div 7 = \underline{\quad}$

$14 \div 7 = \underline{\quad}$

$56 \div 7 = \underline{\quad}$

$7 \div 7 = \underline{\quad}$

$49 \div 7 = \underline{\quad}$

$42 \div 7 = \underline{\quad}$

$35 \div 7 = \underline{\quad}$

$28 \div 7 = \underline{\quad}$

