

# MATH HELP

## GRADE 3

NEW EDITION

CAPS



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|----|--|-----|
| 1  | <b>Numbers:</b> Count in 1's, 2's, 3's, 4's, 5's, 10's, 20's, 25's, 50's and 100's, read numbers, estimate, and count, smaller than or greater than, write numbers in words, place value, extended notation, rounding, doubling, halving | 2   |
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# CHAPTER I: NUMBERS

## READ NUMBERS

Example

628

Six hundred and twenty-eight

Example

345

Three hundred and forty-five

## ESTIMATE AND COUNT

Estimate: guess how many pictures there are

Count: count the pictures. If it is a lot of pictures, make groups of 5 or 10. Count in 5's or 10's.

# WRITE NUMBERS IN WORDS

|   |   |   |
|---|---|---|
| H | T | U |
| 8 | 2 | 4 |

Example

Write 698 in words:

Six hundred and ninety-eight

Example

Write 605 in words:

Six hundred and five

|   |       |    |         |       |               |
|---|-------|----|---------|-------|---------------|
| 1 | one   | 10 | ten     | 100   | one hundred   |
| 2 | two   | 20 | twenty  | 200   | two hundred   |
| 3 | three | 30 | thirty  | 300   | three hundred |
| 4 | four  | 40 | forty   | 400   | four hundred  |
| 5 | five  | 50 | fifty   | 500   | five hundred  |
| 6 | six   | 60 | sixty   | 600   | six hundred   |
| 7 | seven | 70 | seventy | 700   | seven hundred |
| 8 | eight | 80 | eighty  | 800   | eight hundred |
| 9 | nine  | 90 | ninety  | 900   | nine hundred  |
|   |       |    |         | 1 000 | one thousand  |

# CHAPTER 2: NUMBER SENTENCES

## HOME SUMS

### Example

Make the numbers full to the number in the top block.

|    |   |
|----|---|
| 10 |   |
| 1  | 9 |
| 2  | 8 |
| 3  | 7 |
| 4  | 6 |
| 5  | 5 |

|    |    |
|----|----|
| 11 |    |
| 1  | 10 |
| 2  | 9  |
| 3  | 8  |
| 4  | 7  |
| 5  | 6  |

|    |    |
|----|----|
| 12 |    |
| 1  | 11 |
| 2  | 10 |
| 3  | 9  |
| 4  | 8  |
| 5  | 7  |

## MATH ALSO HAS OPPOSITES

Plus, and minus are opposites. It

means:

$$3 + 2 = 5 \text{ so } 5 - 2 = 3 \text{ and } 5 - 3 = 2$$

A plus sum can be checked by a minus sum.

Minus and plus are opposites. It means:

$$3 - 2 = 1 \text{ so } 1 + 2 = 3$$

A minus sum can be checked by a plus sum.

# CHAPTER 3: PLUS, AND MINUS

## PLUS (+)

Example

$$213 + 312 = 525$$

|       | H | T | U |
|-------|---|---|---|
|       | 2 | 1 | 3 |
| +     | 3 | 1 | 2 |
| <hr/> |   |   |   |
|       | 5 | 2 | 5 |
| <hr/> |   |   |   |

OR

$$\begin{aligned} & 213 + 312 \\ \rightarrow & (200 + 10 + 3) + (300 + 10 + 2) \\ \rightarrow & (200 + 300) + (10 + 10) + (3 + 2) \\ \rightarrow & 500 + 20 + 5 \\ \rightarrow & 525 \end{aligned}$$

# MINUS (-)

Example

$$765 - 321 = 444$$

$$\begin{array}{r} \text{H T U} \\ 765 \\ - 321 \\ \hline 444 \end{array}$$

OR

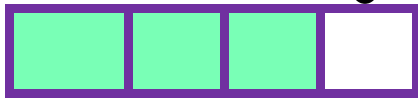
$$\begin{aligned} & 765 - 321 \\ \rightarrow & (700 + 60 + 5) - (300 + 20 + 1) \\ \rightarrow & (700 - 300) + (60 - 20) + (5 - 1) \\ \rightarrow & 400 + 40 + 4 \\ \rightarrow & 444 \end{aligned}$$

# CHAPTER 4: FRACTIONS

## DRAW FRACTIONS

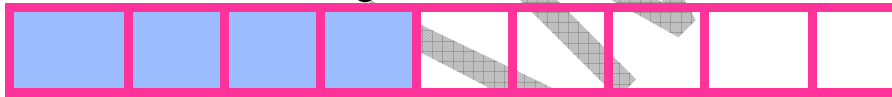
### Example

To draw  $\frac{3}{4}$ . Draw 4 blocks next to each other, each a cm long. Colour 3 blocks.



### Example

To draw  $\frac{4}{9}$ . Draw 9 blocks next to each other, each a cm long. Colour 4 blocks.





# CHAPTER 5: TIME

## ANALOGUE AND DIGITAL TIME

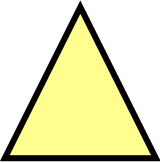
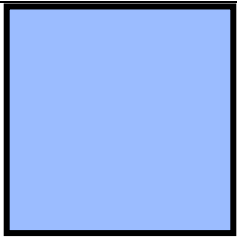
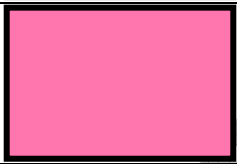
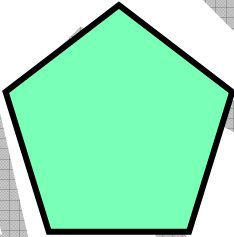
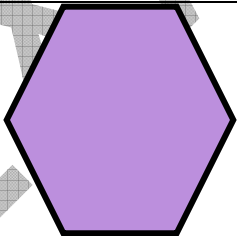
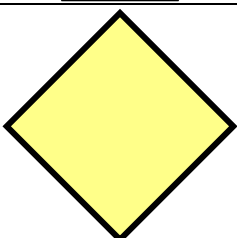
The **long hand** shows the **minutes**, and the **shorthand** shows the **hours**. Count in **5's** for minutes.



| Watch | Analogue time  | Digital time   |
|-------|--|--|
|       | <p>The <b>long hand</b> is on the <b>3</b> (<b>quarter past</b>).</p> <p>The <b>shorthand</b> (hours) is on the <b>2</b>.</p> <p>It's <b>quarter past 2</b>.</p> | <p>The <b>long hand</b> is on the <b>3</b> (<b>15 minutes past</b>).</p> <p>The <b>shorthand</b> (hours) is on the <b>2</b>.</p> <p><b>02:15</b></p> |

# CHAPTER 6: 2D SHAPES

## SHAPES

| Shape   | Name          |
|---|---------------|
|    | triangle      |
|    | square        |
|   | rectangle     |
|  | pentagon      |
|  | hexagon       |
|  | quadrilateral |

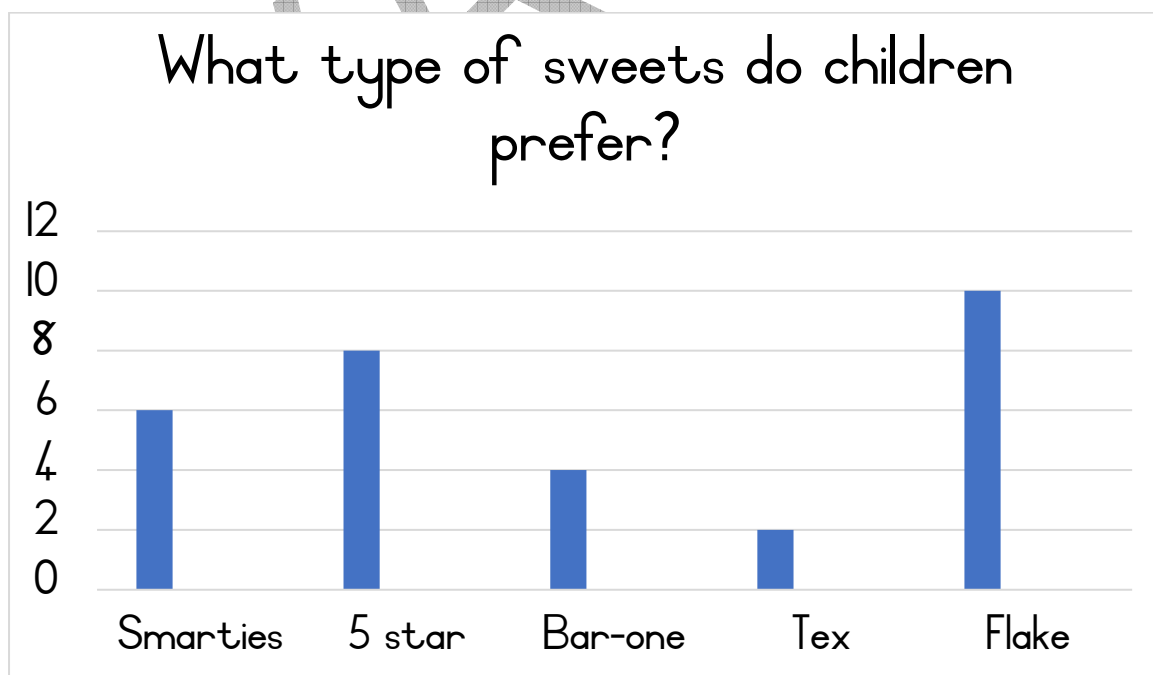
# CHAPTER 7: DATA HANDLING

## FREQUENCY TABLE

What type of sweets do children prefer?

| Type of sweets | Count marks | Frequency |
|----------------|-------------|-----------|
| Smarties       |             | 6         |
| 5 star         |             | 8         |
| Bar-one        |             | 4         |
| Tex            |             | 2         |
| Flake          |             | 10        |
| TOTAL          |             | 30        |

## BAR GRAPH





Kopiereg 2023

[www.wiskundewenners.co.za](http://www.wiskundewenners.co.za)

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