

# Maths

## Grade 6: Term 2

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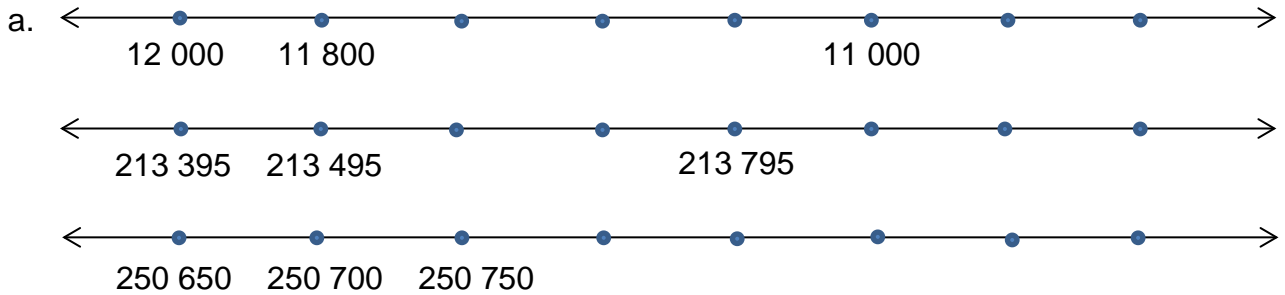
## Unit 1

### Whole Numbers

#### Activity 1

#### Whole Numbers.

1. Copy and complete each number line.



2. Write these words as numbers.

- Two hundred and seven thousand five hundred and sixty eight.
- Six hundred and twenty four thousand nine hundred and seventy.
- One hundred and fifty two thousand four hundred and fourteen.
- Seven hundred and twenty three thousand and eight.

3. Write these numbers in words.

- |            |            |            |            |
|------------|------------|------------|------------|
| a. 542 618 | b. 214 037 | c. 447 182 | d. 301 271 |
| e. 624 503 | f. 172 445 | g. 103 997 | h. 645 117 |

4. What is the place value of the 3 in each of these numbers?

- |            |            |            |            |
|------------|------------|------------|------------|
| a. 346 514 | b. 280 378 | c. 983517  | d. 147 832 |
| e. 106 493 | f. 539 782 | g. 369 798 | h. 638 586 |

5. Compare these numbers. Write both numbers down and insert  $>$   $<$  or  $=$ .

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| a. 155 645 * 155 654 | b. 101 111 * 101 110 | c. 773 575 * 773 575 |
| d. 321 123 * 312 123 | e. 888 788 * 887 788 | f. 300 999 * 309 999 |



If you follow the instructions below, you will work out all the prime numbers less than 100.

1. Cross out 1.
2. Circle 2 and then cross out all other multiples of 2.
3. Circle 3 and cross out all other multiples of 3.
4. Circle 5 and cross out all other multiples of 5.
5. Circle 7 and cross out all multiples of 7.
6. Circle all the numbers which you have not yet crossed out.
7. All the circled numbers are prime numbers smaller than 100.

Write the prime numbers down in your book.

### **Activity 2**

Revision of multiplication: 3 digit x 2 digit numbers.



Remember, when you multiply by 400, you can times by 4 and then by 100...

Copy and complete the tables.

1

		10	20	30	40	50	60	70	80	90
a.	x 4									
b.	x 40									
c.	x400									

2.

			x 100	x 300	x 400	x 500
a.	10					
b.	20					
c.	30					
d.	40					
e.	50					

3.

		x 10	x 100	x 1 000
a.	5			
b.	7			
c.	90			
d.	20			
e.	60			

4. Word problems.

a. Chumani packs 150 t-shirts in a box.

How many does he pack into 20 boxes?



b. A pocket of potatoes has a mass of 12 kg. What is the mass of 400 pockets?

**Activity 3****Multiplying 3 digit numbers by 2 digit numbers.**

Round off each number to the nearest 10, 100 and 1 000.

	Number	≈ 10	≈ 100	≈ 1 000
Example	1 539	1 540	1 500	2 000
a.	2 724			
b.	4 265			
c.	6 452			
d.	3 378			

Copy and complete the table.

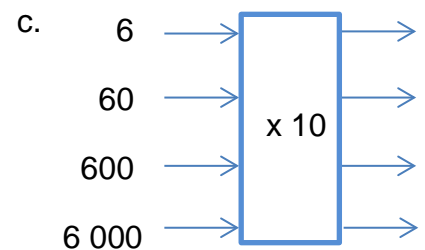
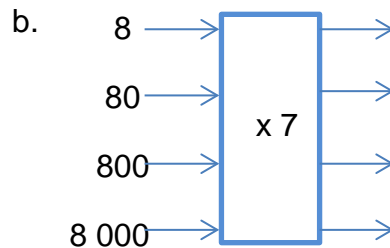
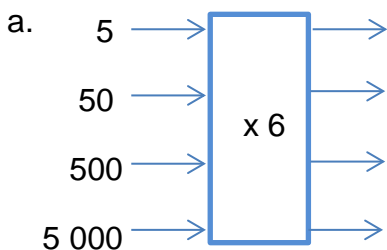
	Number sentence	Round off: $\approx 10$	Working out
Example	$318 \times 22 = ?$	$320 \times 20 = 6\ 400$	$\begin{array}{r} 318 \\ \times 22 \\ \hline 636 \\ + 6360 \\ \hline 6996 \end{array}$
a. $254 \times 27$			
b. $173 \times 16$			
c. $428 \times 14$			
d. $342 \times 18$			
e. $235 \times 22$			

3. There are 168 hours in a week.

How many hours are there in 26 weeks?



4. Copy and complete.



## Unit 2

### Multiplication: 4 digit numbers by 3 digit numbers

#### Activity 1

#### Column method multiplication.

There are 2 column methods:

#### Method 1:

$$\begin{array}{r}
 758 \\
 \times 25 \\
 \hline
 40 \quad (5 \times 8) \\
 + 250 \quad (5 \times 50) \\
 3500 \quad (5 \times 700) \\
 160 \quad (20 \times 8) \\
 1000 \quad (20 \times 50) \\
 14000 \quad (20 \times 700) \\
 \hline
 18950 \\
 \hline
 \end{array}$$

#### Method 2:

$$\begin{array}{r}
 758 \\
 \times 25 \\
 \hline
 3790 \quad (5 \times 758) \\
 + 15160 \quad (20 \times 758) \\
 \hline
 18950 \\
 \hline
 \end{array}$$

1. Copy and complete.

a.  $352$

$\times 42$

$\square\square\square$  (2 x 352)

$\square\square\square\square\square$  (40 x 352)

$14784$

b.  $423$

$\times 32$

$\square\square\square$  (2 x 423)

$\square\square\square\square\square$  (30 x 423)

$13536$



2. Calculate using either column method.

a.  $213 \times 44$

b.  $178 \times 21$

c.  $268 \times 28$

d.  $483 \times 24$

e.  $235 \times 41$

f.  $422 \times 23$

g.  $265 \times 22$

h.  $521 \times 17$

i.  $159 \times 34$

j.  $372 \times 15$

k.  $186 \times 25$

l.  $257 \times 16$

3. A box contains 235 chocolate bars.

How many chocolate bars will there be in 12 boxes?



4. 325 people attend our school concert.

Tickets cost R15 each. How much money did the school collect?

### Activity 2

*When you multiply by 3 000, you can times by 3 and then by 1 000.*

Copy and complete the tables.

1.

		100	200	300	400	500	600	700	800	900
a.	x 3	300								
b.	x 30									
c.	x 300									

2.

			x 2 000	x 3 000	x 4 000	x 5 000
a.	100					
b.	200					
c.	300					
d.	400					
e.	500					

3.

	Number sentence	Round off: $\approx 100$	Working out
	$1\,265 \times 132$	$1\,300 \times 100 =$ $130\,000$	$\begin{array}{r} 1\,264 \\ \times \quad 132 \\ \hline 2\,530 \\ + 37\,950 \\ \hline 126\,500 \\ \hline 166\,980 \end{array}$
a.	$2\,345 \times 126$		
b.	$1\,638 \times 134$		
c.	$2\,189 \times 143$		
d.	$1\,862 \times 252$		
e.	$2\,573 \times 278$		

Try  
this!



**Informal assessment**

Whole numbers.

1. Copy and complete the number patterns.

a. 1 250; 1 375; 1 500; -----; -----; -----; -----; -----

b. 4 575; -----; -----; 4 650; -----; -----; -----; -----

2. Ordering: arrange the numbers in ascending order.

15 251      15 521      12 552      12 251      15 512      15 125      12 512      12 555

Underline the odd numbers in green and the even numbers in blue.

3. Write these numbers in words.

a. 261 473

b. 438 057

c. 366 728

d. 512 404

4. Rounding off: copy and complete the table.

		≈ 5	≈ 10	≈ 100	≈ 1 000
a.	751 624				
b.	116 573				
c.	304 879				

5. Multiplication: up to 4 digits x 3 digits.

Copy and complete the table.

		10	20	30	40	50	60	70	80	90
a.	x 6									
b.	x 60									
c.	x 600									

6. Word problems.

a. A box contains 144 sweets.

How many sweets will there be in 15 boxes?

b. One box costs R134.

How much will all 15 boxes cost?



## 7. Multiplication with rounding off.

Copy and complete the table.

	Number sentence	$\approx 10$	$\approx 100$	Actual calculation
a.	$257 \times 53$			
b.	$1\,275 \times 134$			
c.	$2\,348 \times 146$			

# Unit 3

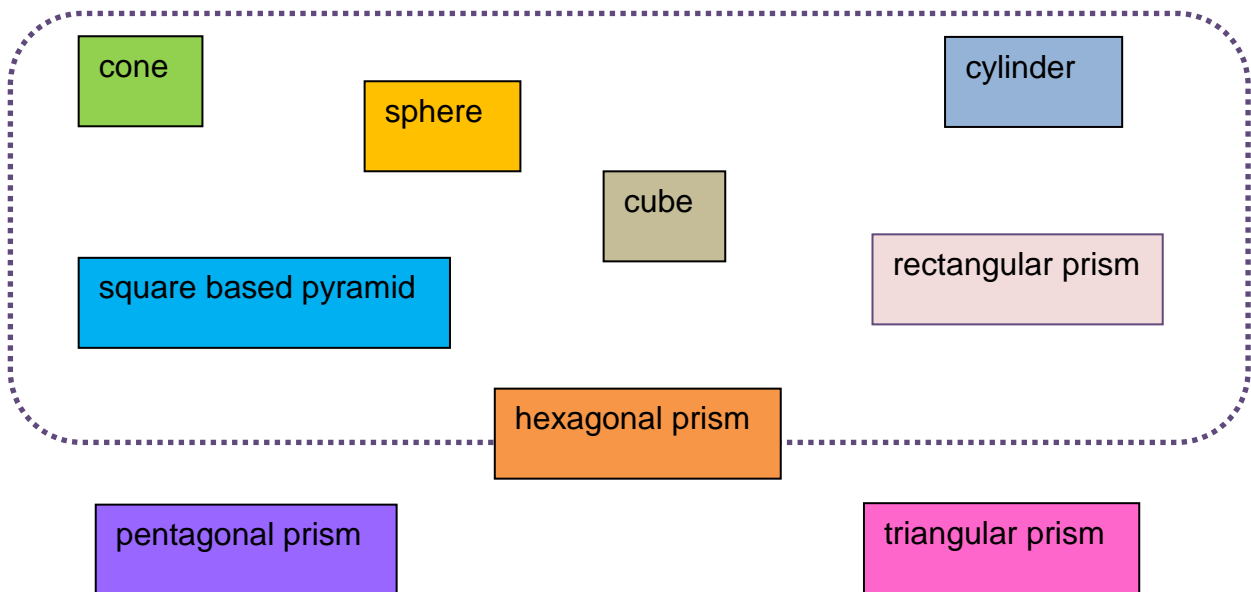
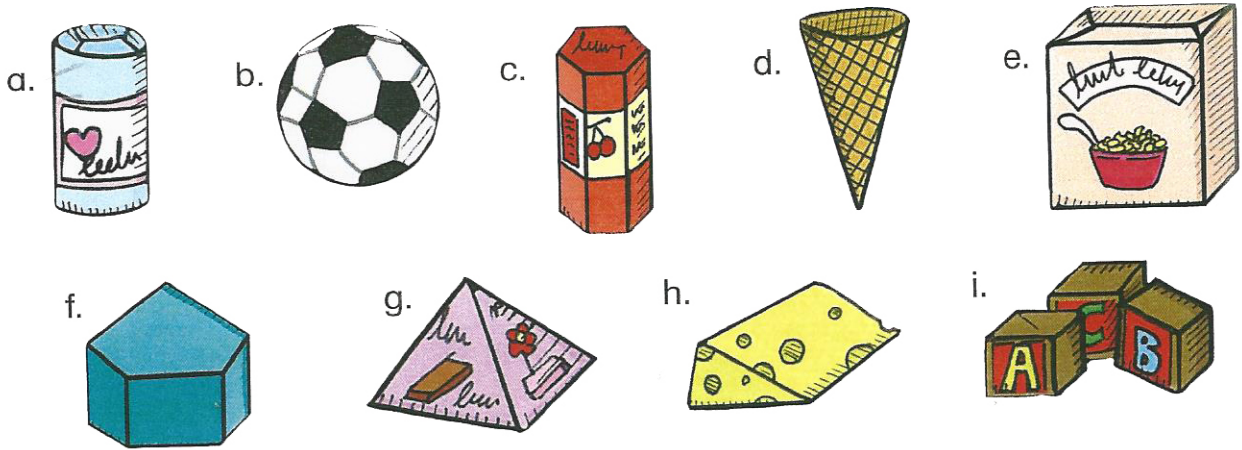
## Properties of 3-D objects

### Activity 1

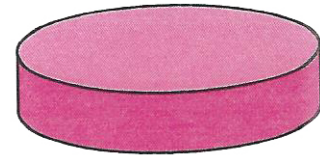
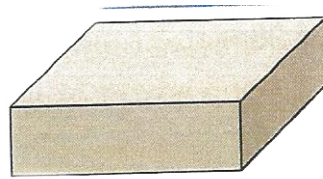
Identify 3-D objects and describe their surfaces.

1. Write the letter of each 3-D object with the correct name:

Example: a. cylinder



2. Flat and curved surfaces.



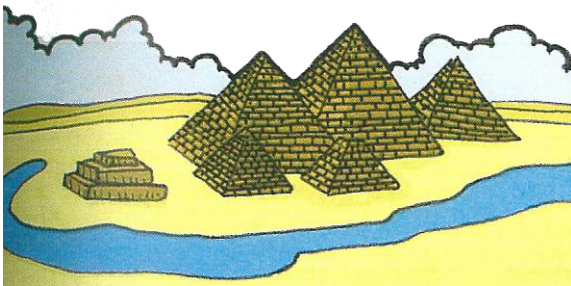
Describe the faces and surfaces of each 3-D object in the picture at the top of page 79.

Example

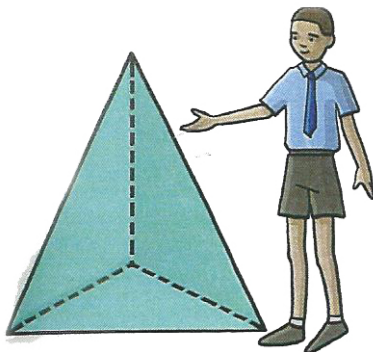
a. cylinder: flat and curved surface.

**Activity 2**

**Pyramids.**



In which African country do we find pyramids?



This is a tetrahedron (triangular based pyramid)

It has 4 flat triangular faces.

Tetra is the Greek word for 4.

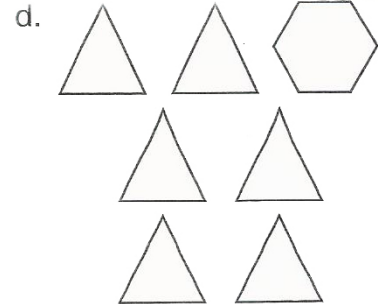
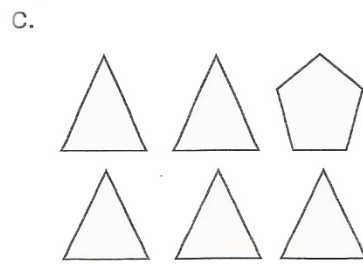
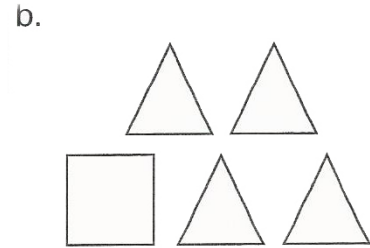
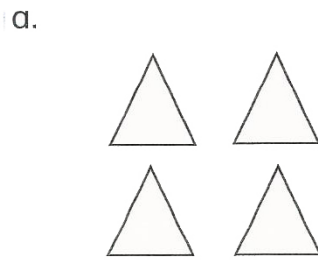
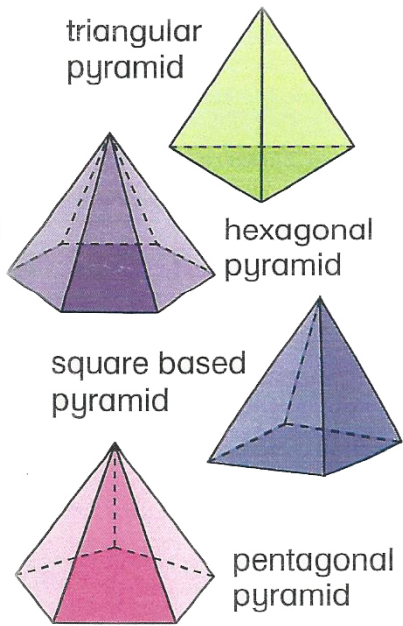
Hedron is the Greek word for face.



There are many kinds of pyramids.

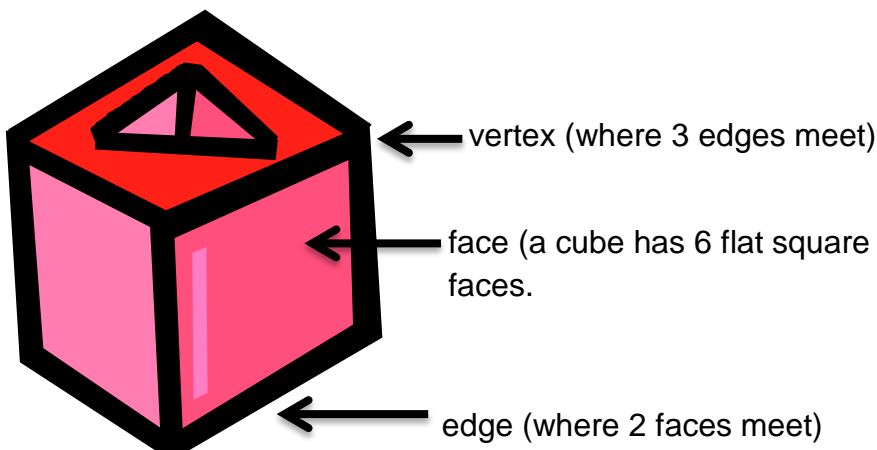
Pyramids are named by the shape at the **base** of the pyramid

1. Match each pyramid with the correct set of faces. Write the name and matching letter.

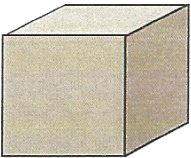
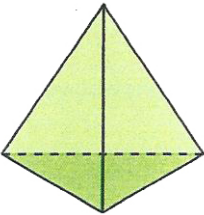


**Activity 3**

*Faces, edges and vertices.*



1. Copy and complete the table.

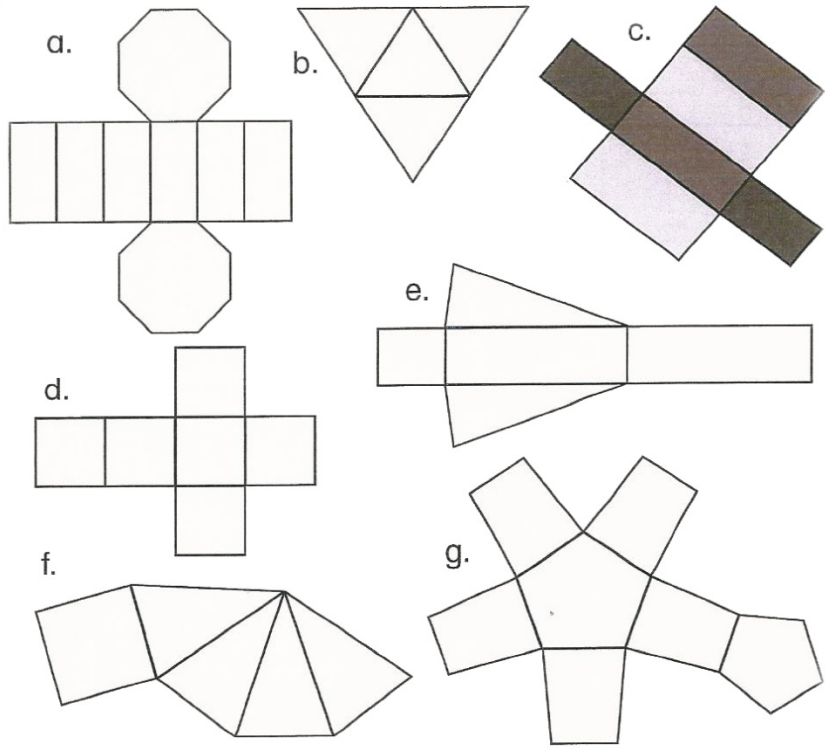
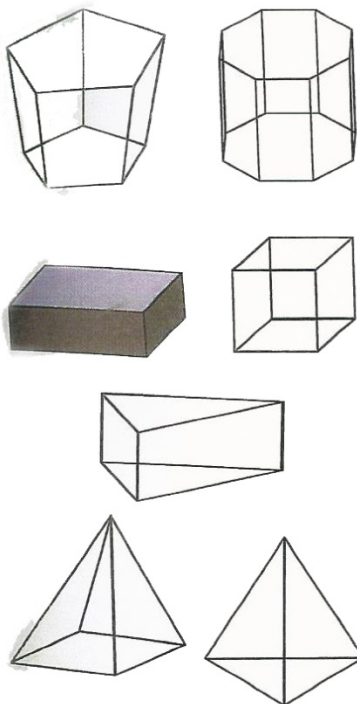
3-dimensional object	Name of 3-D object	Number of faces	Shape of each face	Number of edges	Number of vertices
					
					

**Activity 4**

**3-D objects and nets.**

Write the name of each 3-D object with the letter of the matching net.

Example: cube: d

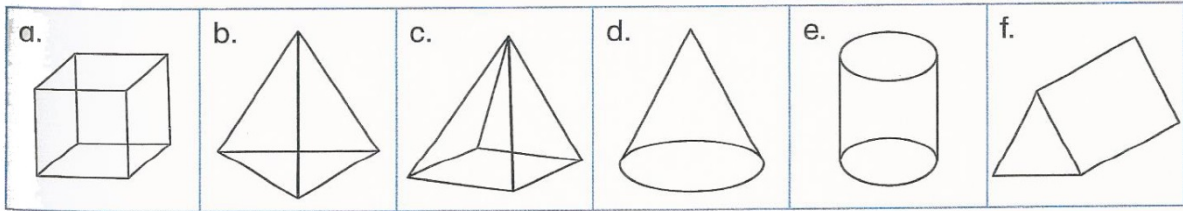




**Activity 5**

**Describe 3-D objects.**

Write the name of the object and its description.

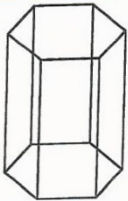
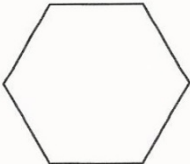
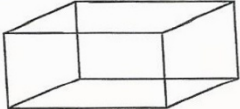
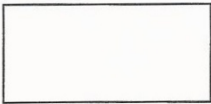
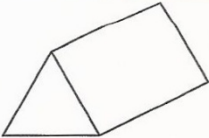
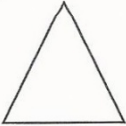
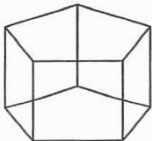
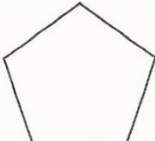


I have 1 flat circular face and 1 curved surface that forms a vertex. (point)	I have 2 flat circular faces and 1 curved surface.	I have 1 flat square face and 4 triangular faces.
I have 4 flat triangular faces.	I have 5 flat faces. 2 of them are triangular and 3 are rectangular.	I have 6 flat square faces, 12 edges and 8 corners.

**Activity 6**

**Measuring angles.**

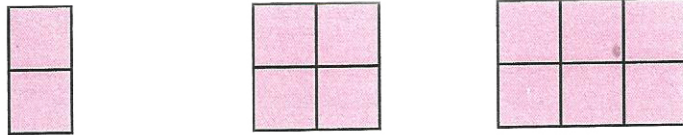
1. Write the name of each 3-D shape, shape of the face and describe the angles.

Name of object	Shape of face	right $\angle$ smaller than a right $\angle$ bigger than a right $\angle$
		
		
		
		

**Unit 4**

**Geometric Patterns**

*A geometric pattern is a sequence of objects or drawings.*

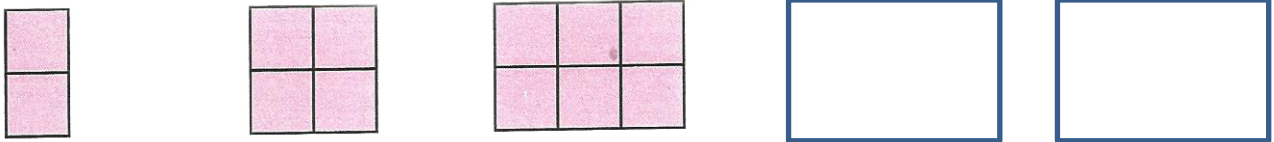


*Look for, and think of patterns in your everyday life.*

**Activity 1**

**Patterns, tables and rules.**

- Copy and complete the pattern.
- Copy and complete the table.
- Copy and complete the rule.

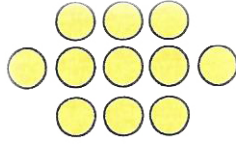
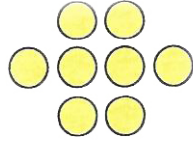
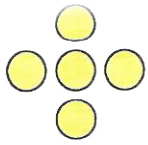


Pattern no.	1	2	3	4	5	6	7	8	9	10
Number of squares	2	4								

Describe the pattern: \_\_\_\_\_.

Rule: Add \_\_\_\_\_ squares to each pattern.

2.



Pattern number	1	2	3	4	5	6	7	8	9	10
Number of circles	5									

Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_



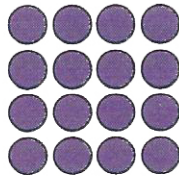
1



2



3



4



Pattern number	1	2	3	4	5	6	7	8	9	10
Number of circles										

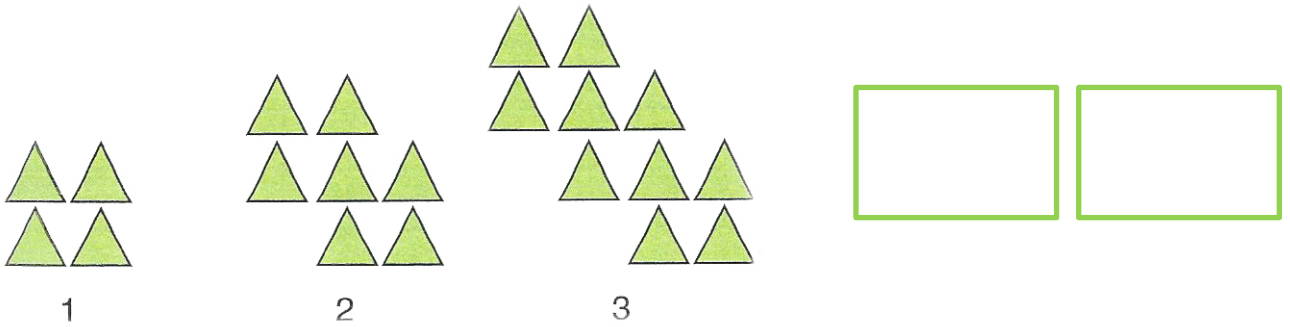
Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_



Did you notice that for the geometric patterns above, a number was multiplied by itself to get each answer?  
 $1 \times 1 = 1$   $2 \times 2 = 4$   $3 \times 3 = 9$   $4 \times 4 = 16$

4.



Pattern number	1	2	3	4	5	6	7	8	9	10
Number of triangles										

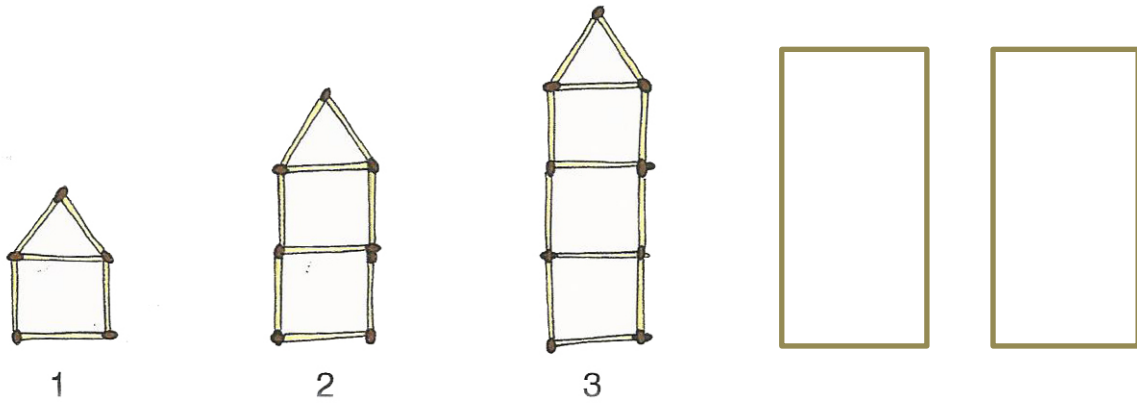
Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_

**Activity 2**

**Building geometric shapes.**

Continue the pattern by building on.



Pattern number	1	2	3	4	5	6	7	8	9	10
Number of matches	6									

Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_

??? How many matches would you need to build pattern 20?

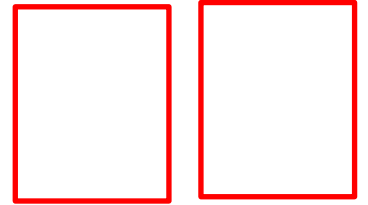
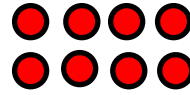
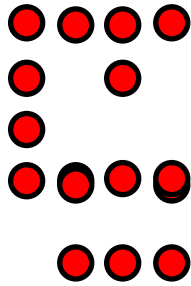
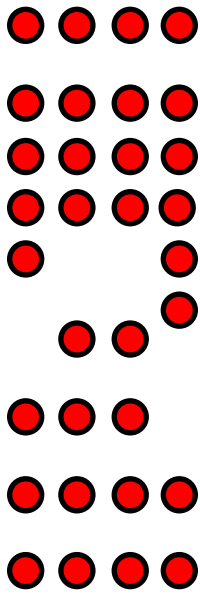
**Activity 3.**

**Patterns and flow diagrams.**

- Siya put: 32 marbles in the first pile
- 16 marbles in the second pile
- 8 marbles in the third pile.

How many marbles would be in the fourth and fifth pile?

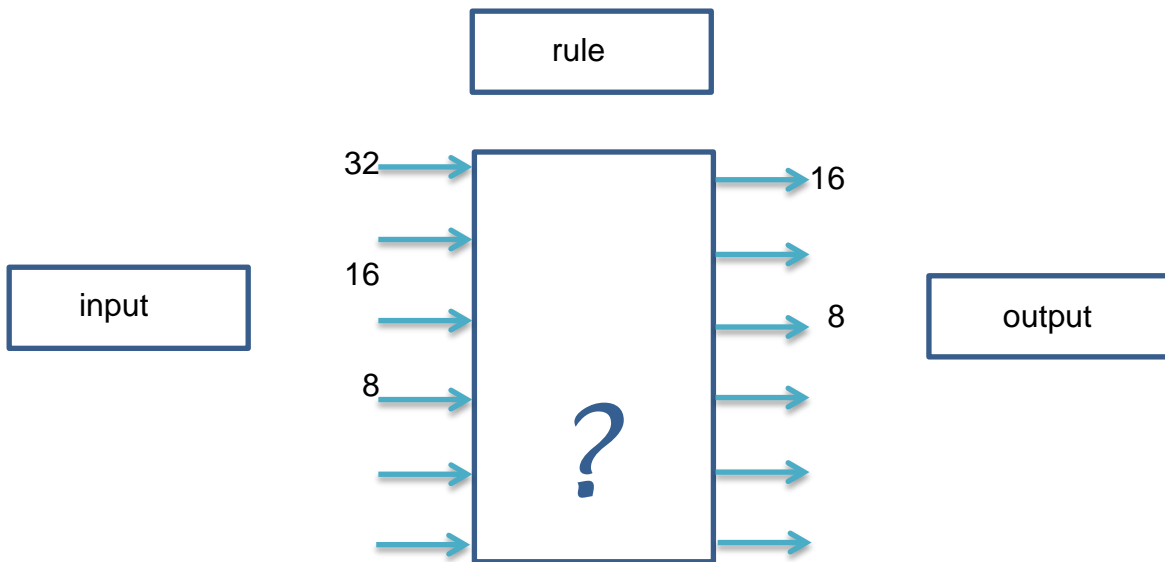
2.



Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_

Flow diagrams are a kind of number pattern.



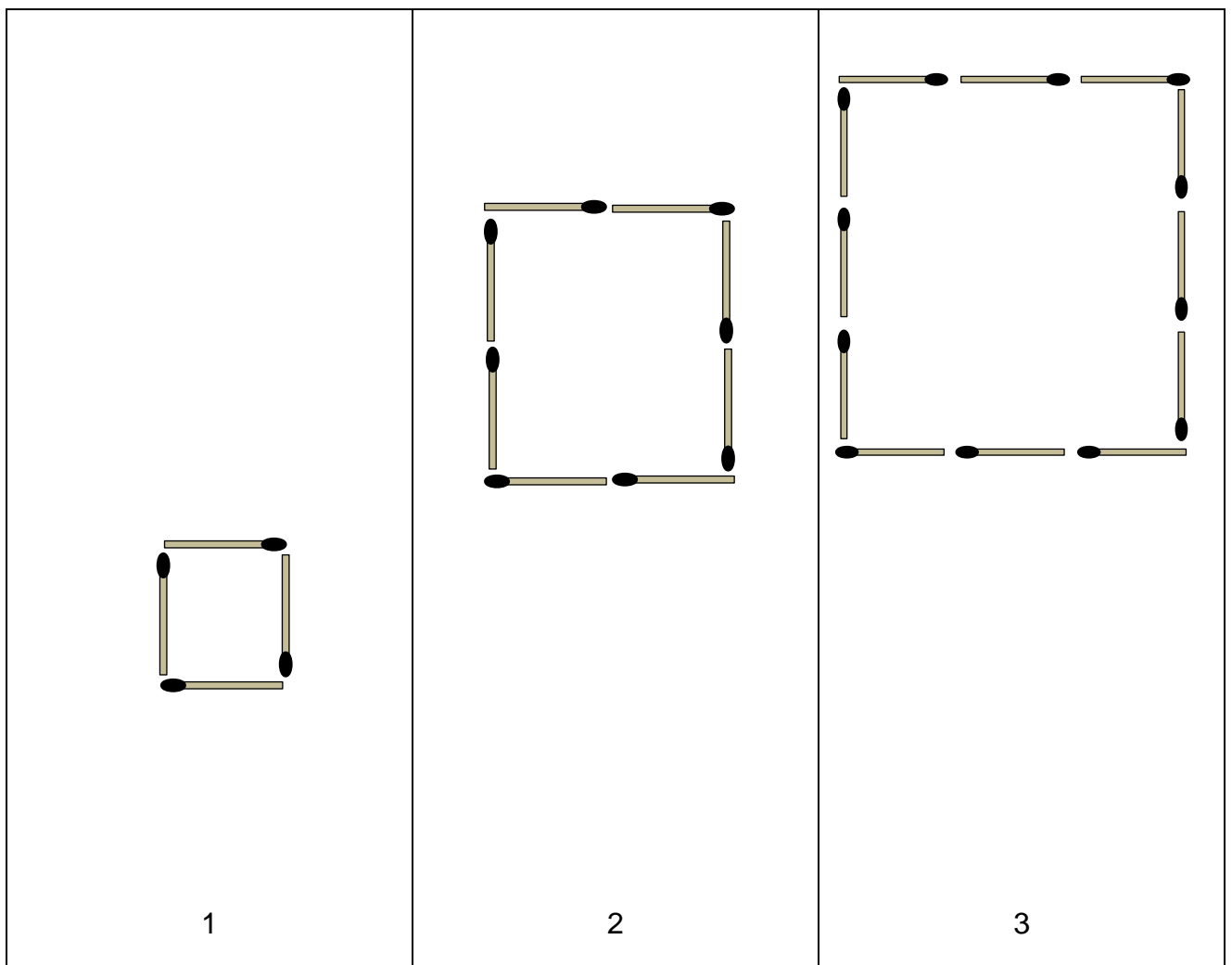
## Unit 5

### Geometric patterns and symmetry

#### Activity 1

#### Matchstick patterns.

1. How would you build patterns 4, 5 and 6?



Describe the pattern: \_\_\_\_\_

Rule: \_\_\_\_\_





**Activity 2**

**Extending geometric patterns.**

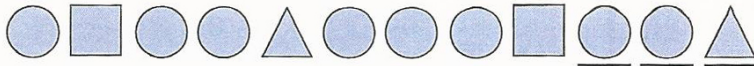
a.



Look at the pattern below. How will we extend it?

b.

I see the pattern. It is ○ □ and ○ ○ △ ○ ○



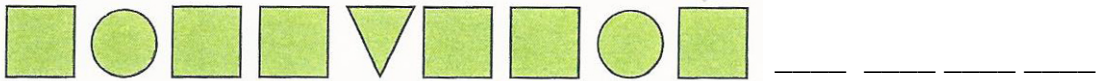
Describe the pattern: circle, square, circle, circle, triangle, circle, circle

1. Copy each pattern and draw the next 5 shapes

a.



b.



c.



d.



e.

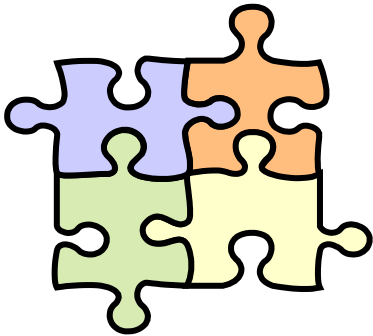


f.



**Activity 3**

**Lines of symmetry.**

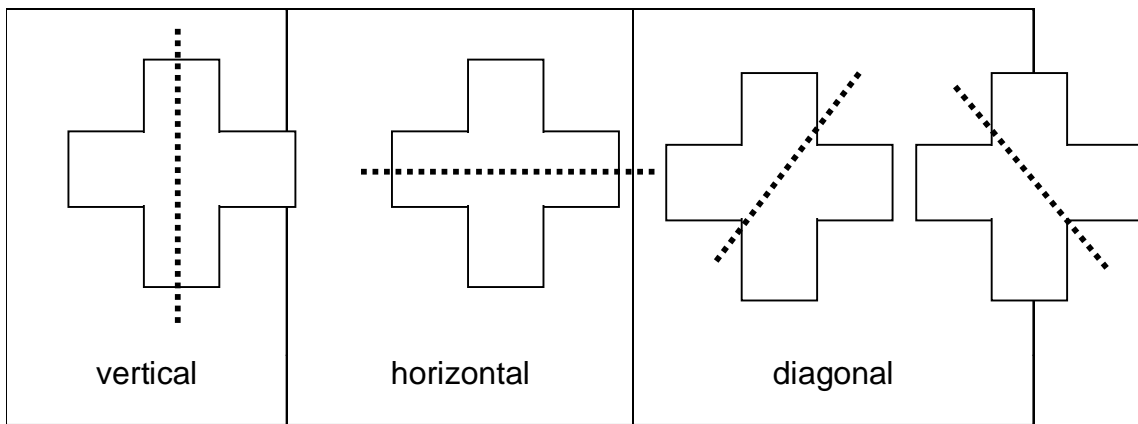


Remember, a 2-D shape can be divided into 2 halves that are a mirror image of each other.

We call the line that divides them a **line of symmetry**.

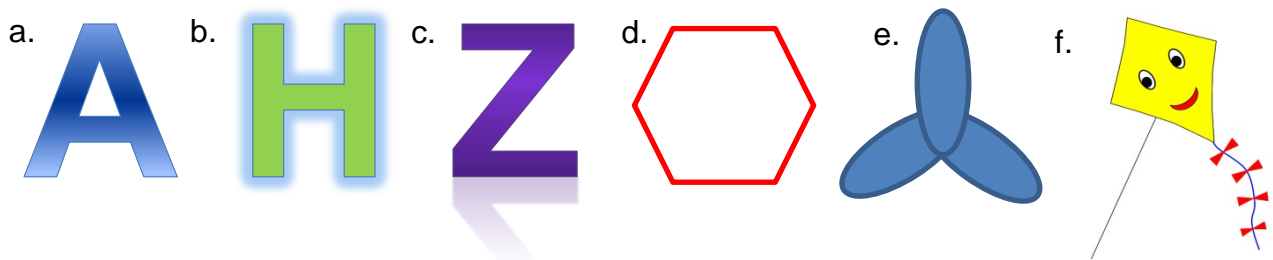
Some shapes have more than one line of symmetry.

A line of symmetry can be:



Trace the shapes below. Fill in as many lines of symmetry as you can.

Describe the lines of symmetry.



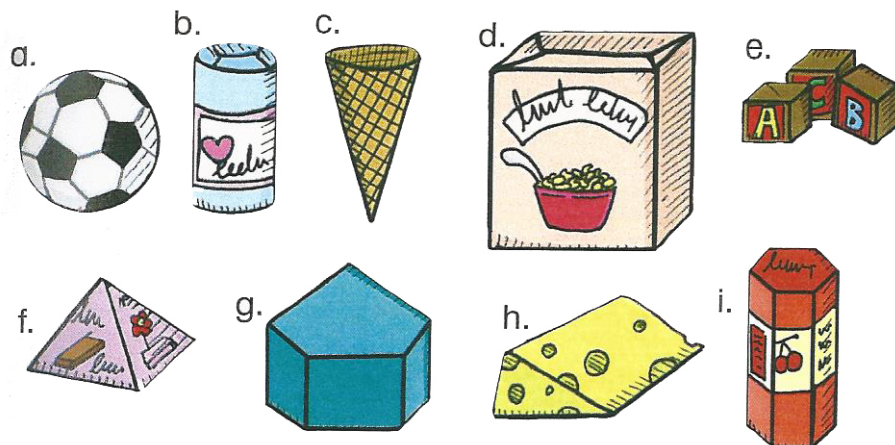
3. Write the number of lines of symmetry in each flag.



## Informal Assessment

### Properties of 3-D shapes.

Match the letter of each 3-D object with its correct name.



pentagonal prism

cone

hexagonal prism

square based pyramid

cylinder

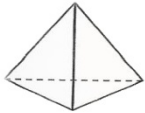
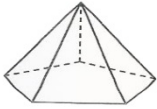
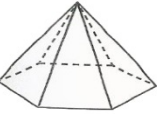
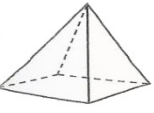
sphere

rectangular prism

triangular prism

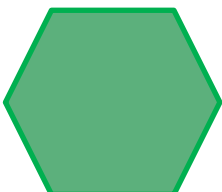
cube

2. Copy and complete the table.

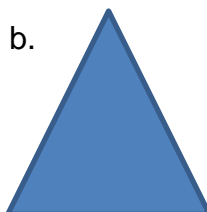
Name of 3-D object	Number of faces	Shape of each face	Number of edges	Number of vertices
				
				
				
				

3. Name the angles in each shape (e.g.) acute, obtuse, reflex...

a.



b.



c.

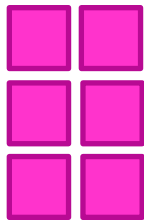


4. Copy and complete pattern 4 and 5.

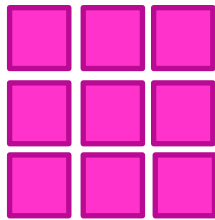
a.



1



2



3

4

5

b. Copy and complete the table.

Pattern number	1	2	3	4	5	6	7	8	9	10
No. of squares										

c. Describe the pattern.

d. Rule: \_\_\_\_\_

5a. How many lines of symmetry does this shape have?

Draw the shape in your book and fill in the lines of symmetry on the shape.



b. Draw a shape which has only 1 vertical line of symmetry.

c. Draw a shape which has only 1 horizontal line of symmetry.

d. Draw a shape which only has 1 diagonal line of symmetry.

## Unit 6

### Division

Remember, division and multiplication are inverse (opposite) operations and can be used to check answers.



### Activity 1

#### Multiplication and Division

##### 1. Number families.

Write 4 number sentences for each group of numbers.

Eg:	56 8 7	$7 \times 8 = 56$	$8 \times 7 = 56$	$56 \div 7 = 8$	$56 \div 8 = 7$
a.	10 21 210				
b.	6 200 100 62				
c.	20 800 40				
d.	400 25 16				
e.	11 12 132				

##### 2. Copy and complete.

	...is exactly divisible by	Circle/colour the correct number(s):
a.	84	1 2 3 4 5 6 7 8 9 10
b.	160	1 2 3 4 5 6 7 8 9 10
c.	275	1 2 3 4 5 6 7 8 9 10
d.	1 263	1 2 3 4 5 6 7 8 9 10
e.	4 132	1 2 3 4 5 6 7 8 9 10
f.	22 163	1 2 3 4 5 6 7 8 9 10

3. Divide the numbers in column B by the numbers in column A.

Copy and complete the table.

	Column A	Column B			
Example:	1	42	63	754	896
Answers;		42	63	754	896
a.	2	5	456	325	12 000
Answers:					
b.	3	19	540	720	145
Answers:					
c.	5	84	376	855	1 020
Answers:					
d.	7	99	756	490	325
Answers:					
e.	9	123	810	1 804	902
Answers:					

4. Division with remainders.

Complete each number sentence and check your answer.

Example:  $\square \div 9 = 4 \text{ rem } 5$   
 Check:  $(9 \times 4) + 5 = 41$   
 $41 \div 9 = 4 \text{ rem } 5$

a.	$\square \div 6 = 7 \text{ rem } 2$	i.	$\square \div 9 = 7 \text{ rem } 7$
b.	$\square \div 8 = 3 \text{ rem } 5$	j.	$93 \div \square = 9 \text{ rem } 3$
c.	$\square \div 7 = 6 \text{ rem } 4$	k.	$105 \div \square = 10 \text{ rem } 5$
d.	$62 \div \square = 5 \text{ rem } 2$	l.	$\square \div 4 = 8 \text{ rem } 3$
e.	$87 \div \square = 7 \text{ rem } 3$	m.	$76 \div \square = 9 \text{ rem } 4$
f.	$59 \div \square = 6 \text{ rem } 5$	n.	$69 \div \square = 8 \text{ rem } 5$



g.	$\square \div 6 = 9 \text{ rem } 3$	o.	$\square \div 8 = 7 \text{ rem } 6$
h.	$74 \div \square = 8 \text{ rem } 2$	p.	$\square \div 9 = 5 \text{ rem } 8$

## Activity 2

### Dividing by 10, 100 and 1 000.

#### 1. Dividing by 10.

$40 \div 10 = 4$	$400 \div 10 = \square$	$4\ 000 \div 10 = \square$
$70 \div 10 = \square$	$700 \div 10 = \square$	$7\ 000 \div 10 = \square$
$90 \div 10 = \square$	$900 \div 10 = \square$	$9\ 000 \div 10 = \square$

*What do you notice when you divide a number by 10?*

#### 2. Dividing by 100.

$400 \div 100 = 4$	$4\ 000 \div 100 = \square$	$40\ 000 \div 100 = \square$
$700 \div 100 = \square$	$7\ 000 \div 100 = \square$	$70\ 000 \div 100 = \square$
$900 \div 100 = \square$	$9\ 000 \div 100 = \square$	$90\ 000 \div 100 = \square$

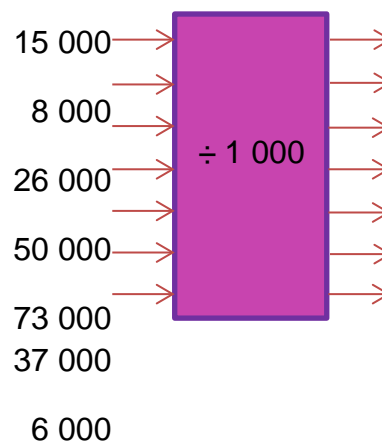
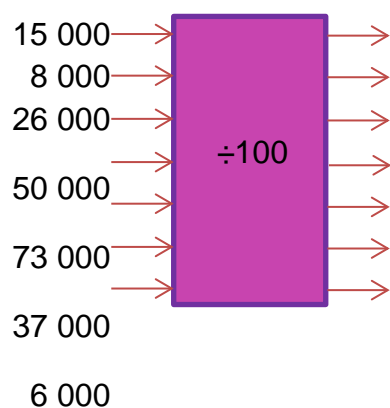
*What do you notice when you divide a number by 100?*

#### 3. Dividing by 1 000.

$4\ 000 \div 1\ 000 = 4$	$40\ 000 \div 1\ 000 = \square$	$400\ 000 \div 1\ 000 = \square$
$7\ 000 \div 1\ 000 = \square$	$70\ 000 \div 1\ 000 = \square$	$700\ 000 \div 1\ 000 = \square$
$9\ 000 \div 1\ 000 = \square$	$90\ 000 \div 1\ 000 = \square$	$900\ 000 \div 1\ 000 = \square$

*What do you notice when you divide a number by 1 000?*

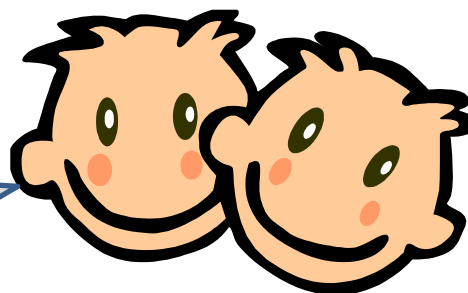
4. Copy and complete the flow diagrams.



### Activity 3

Division: 3 digit by 1 digit.

Remember, you have already learned to divide 3 digits by 1 and 2 digits. Let's revise this...



Example:  $472 \div 5 = ?$

$$\begin{array}{r} . 94 \text{ rem } 2 \\ 5 \overline{) 472} \end{array}$$

1. Calculate, and then check your answers by using multiplication.

a.  $275 \div 4$

b.  $347 \div 3$

c.  $416 \div 5$

d.  $528 \div 7$

e.  $843 \div 6$

f.  $608 \div 8$

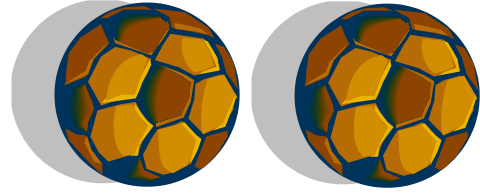
g.  $739 \div 9$

h.  $653 \div 4$

2. Solve these problems.

a. There are 7 girls in a netball team.

How many teams can be picked from 216 girls?



b. A farmer has 743 apples which he packs into packets.

If each packet has 8 apples in it, how many packets can he fill?

## Unit 7

### Division: 4 digit by 2 digit

#### Activity 1

The method is the same as for dividing by 1 digit...

Example:  $316 \div 12$

26 rem 4

$$\begin{array}{r}
 12 \overline{) 316} \\
 \underline{-24} \phantom{0} \\
 76 \\
 \underline{-72} \\
 4
 \end{array}$$

12

24

36

48

60

72

1. Calculate, and check your answers with multiplication.

a.  $514 \div 14$

b.  $279 \div 15$

c.  $691 \div 5$

d.  $438 \div 12$

e.  $903 \div 16$

f.  $722 \div 13$

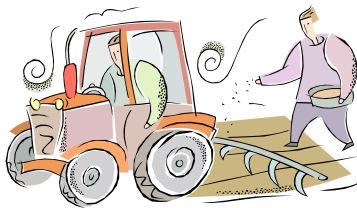
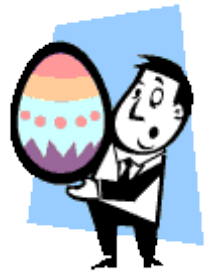
g.  $586 \div 19$

h.  $637 \div 14$

2. Solve these problems.

a. There are 12 eggs in a dozen.

Farmer Brown's chickens lay 465 eggs. How many dozen eggs can he sell?



b. Farmer Joe needs to plant new mealie plants.

He has 712 seeds and needs to plant 15 seeds in each row.

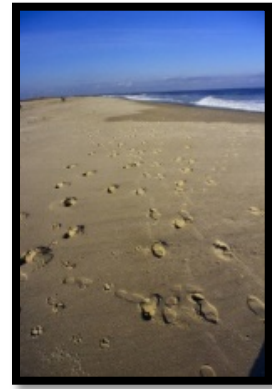
How many rows can he fill?

c. There are 231 Grade 6 learners.

If there are 33 children in a class, how many Grade 6 classes are there?



- d. A school outing to the beach cost R360 for 24 learners.  
How much must each learner pay?

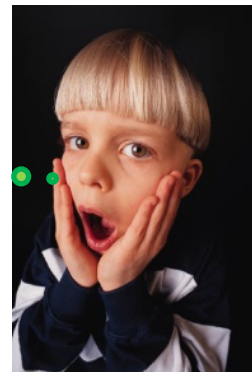


### Activity 2

Use a clue board to divide a 4 digit number by 2 digits.

Example:  $3\ 447 \div 17 = ?$

I don't know the 17 times tables so I am going to use a clue board.



Carefully write out the multiples of the number you'll be dividing by...

17
34
51
68
85
102

$$\begin{array}{r}
 202 \text{ rem } 13 \\
 17 \overline{) 3447} \\
 \underline{- 34} \phantom{0} \\
 04 \phantom{0} \\
 \underline{- 0} \phantom{0} \\
 47 \\
 \underline{- 34} \\
 13
 \end{array}$$

Let's check by multiplying:

$$\begin{array}{r}
 202 \\
 \times 17 \\
 \hline
 1414 \\
 +2020 \\
 \hline
 3434
 \end{array}$$

1. Calculate and check your answer.

a.  $4\ 968 \div 23$

b.  $5\ 192 \div 44$

c.  $9\ 864 \div 14$

d.  $3\ 981 \div 31$

e.  $1\ 372 \div 16$

f.  $2\ 844 \div 18$

g.  $1\ 819 \div 17$

h.  $7\ 026 \div 21$

i.  $8\ 612 \div 19$



2. Solve these problems.

a. The school tuck shop buys a box of packets of chips for R60.

There are 24 small packets in the box.

How much does each packet cost?



b. A farmer wants to plant 1 440 orange trees.

He only has space for 36 rows.

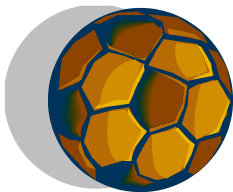
How many trees should he plant in each row?



c. Sizwe buys radios to sell at his shop.

He paid R6 875 for 55 radios.

How much did each radio cost?



d. A company donated boxes of soccer balls to a school.

Each box has 37 soccer balls in it. If there are 9 065

balls altogether, how many boxes of soccer balls were donated?



e. Lindi sells flowers at a market each Saturday.

If 12 roses cost R7,20, how much will 18 roses cost?

f. Jim's class collected newspaper for recycling project.

The total amount of newspaper for recycling was 2 380kg.

If there are 35 children in his class, how much newspaper did each child collect?

g. The school shop buys 56 shirts.

The total cost was R2 016.

How much did 1 shirt cost?



h. A farmer has 2 379 apples that he packs into pockets. There are 18 apples in each pocket.

How many pockets can he fill?

## Unit 8

### Decimals

*Fractions with a denominator of 10, 100 or 1 000 can be written as decimals.  
A decimal is any number which has a decimal comma.*

A decimal comma separates whole numbers from tenths, hundredths and thousandths.

- The first number after the decimal comma represents tenths:  $\frac{1}{10} = 0,1$
- The second number after the decimal comma represents hundredths:  $\frac{1}{100} = 0,01$
- The second number after the decimal comma represents thousandths:  $\frac{1}{1\,000} = 0,001$ .

### Activity 1

#### Tenths

1. Look at each strip of 10 squares. Write each as a fraction and a decimal.

Example:



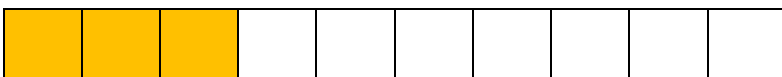
a.



b.



c.

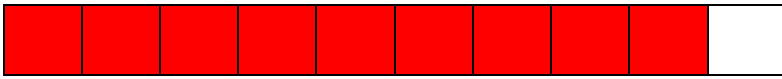


d.





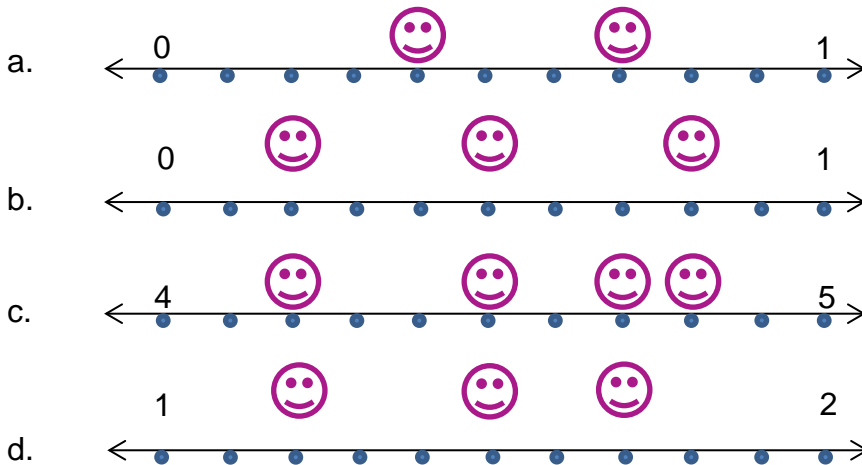
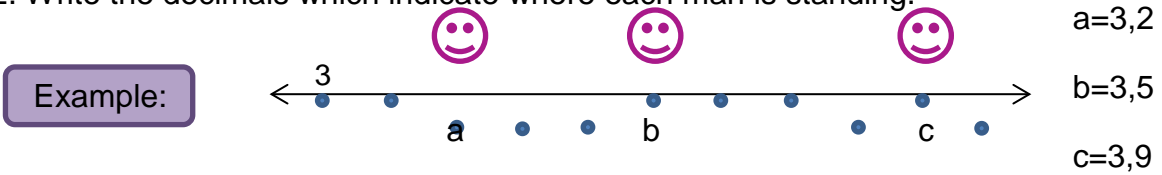
e.



f.



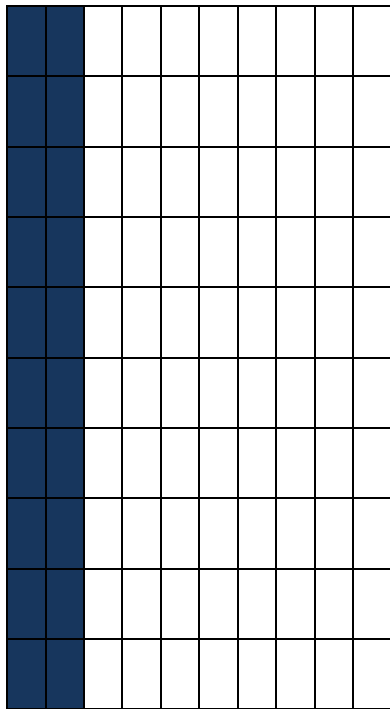
2. Write the decimals which indicate where each man is standing.



**Activity 2**  
**Hundredths**

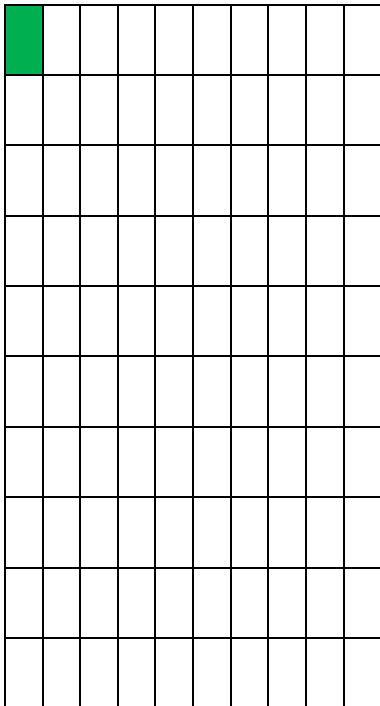
- Look at each hundredths grid.  
 Write each as a fraction and a decimal.

Example:

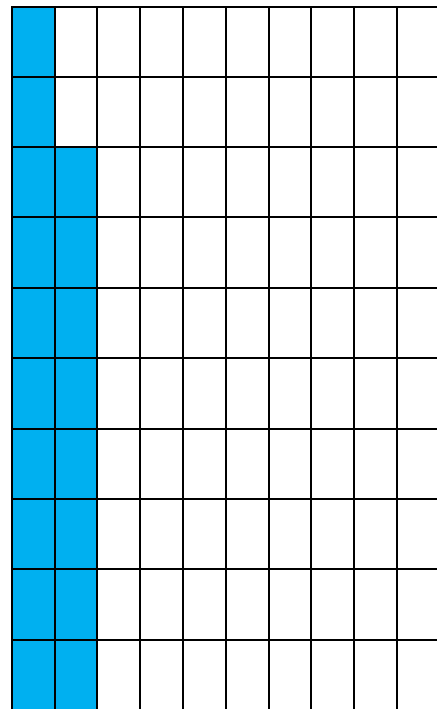


$$= \frac{20}{100} = 0,20$$

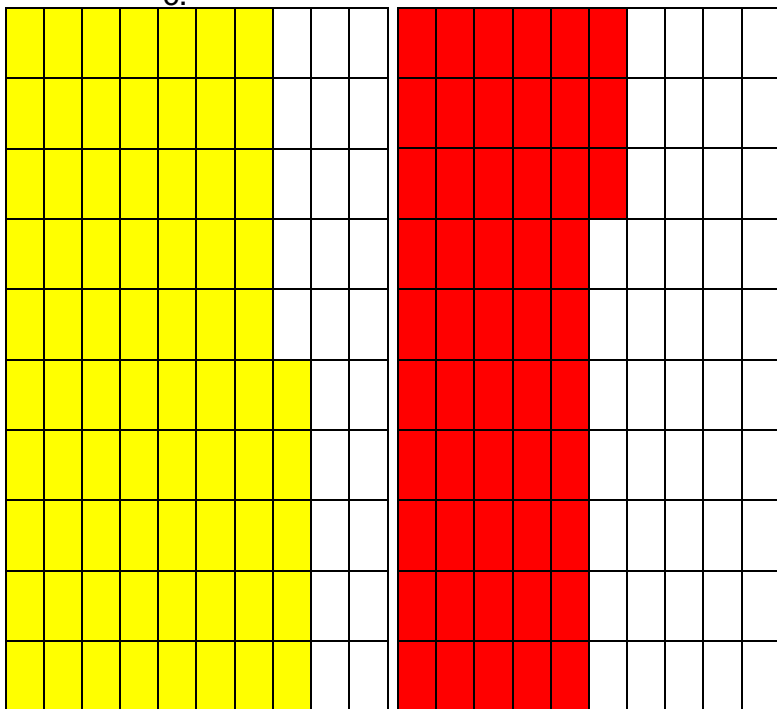
a.



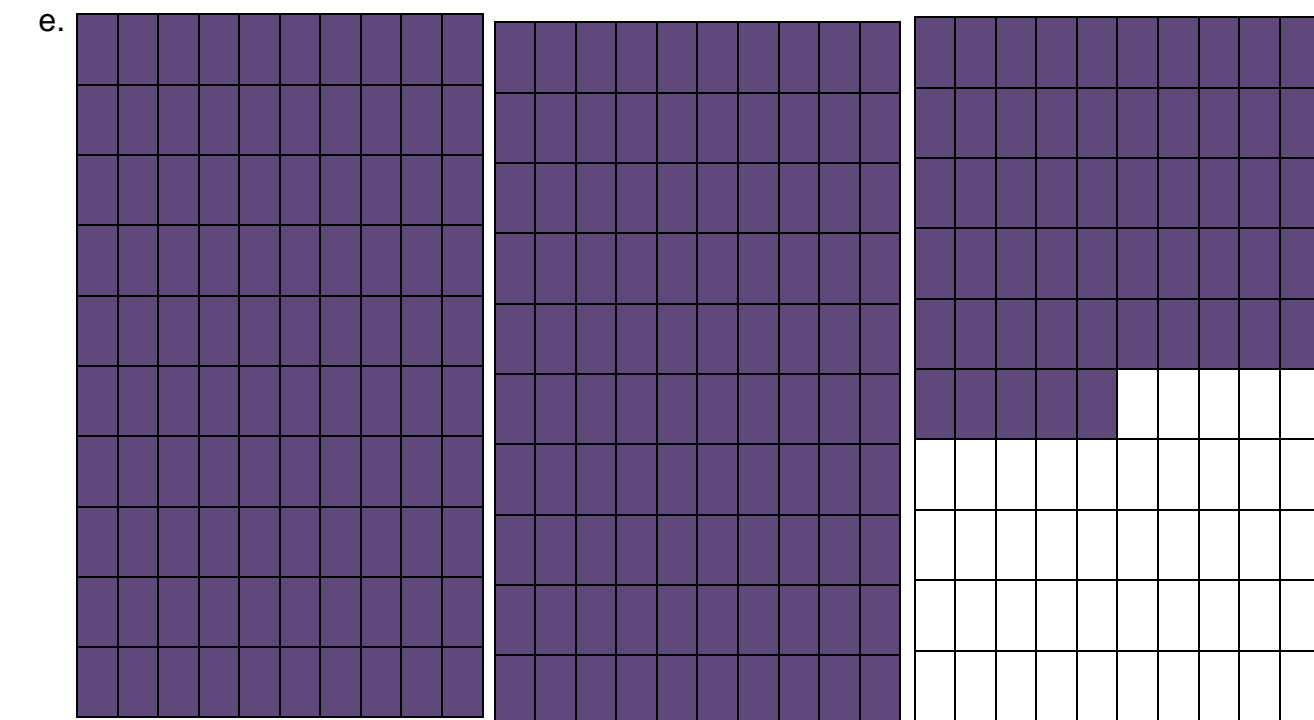
b.



c.

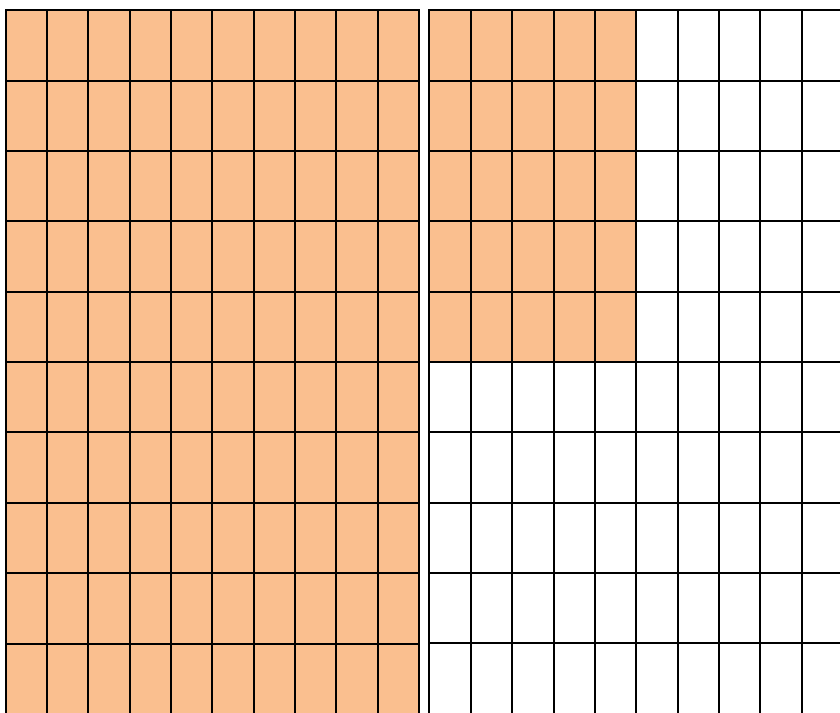
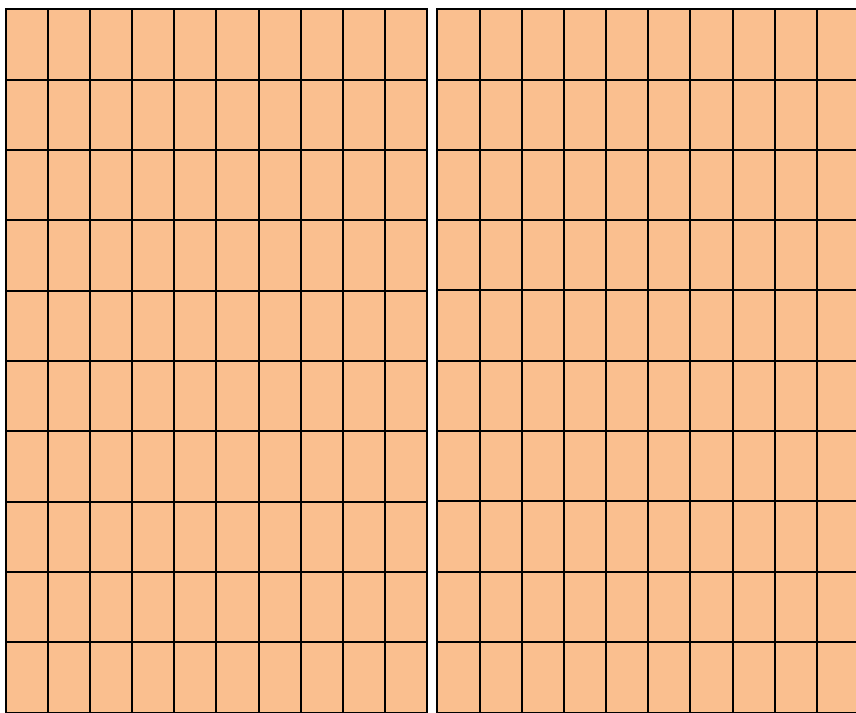


d.

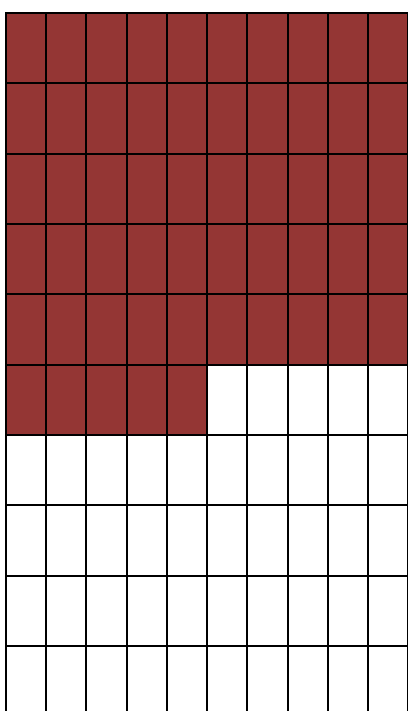
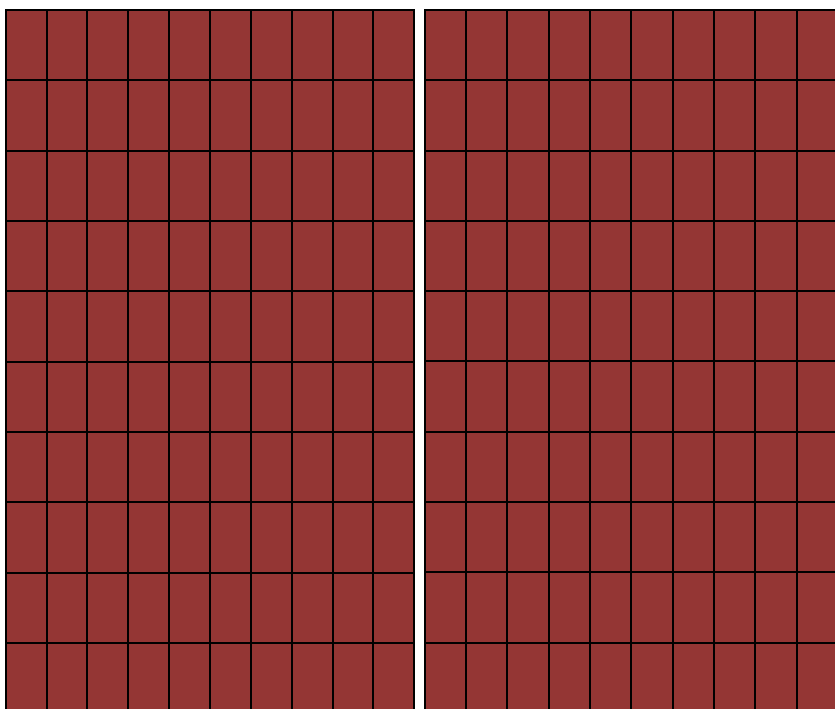


e.

f.



g.



2. Write the following as decimals.

a.  $3\frac{37}{100}$

b.  $2\frac{83}{100}$

c.  $1\frac{7}{100}$

d.  $1\frac{10}{100}$

e.  $\frac{9}{100}$

f.  $3\frac{18}{100}$

g.  $4\frac{59}{100}$

h.  $2\frac{97}{100}$

i.  $2\frac{1}{100}$

j.  $1\frac{47}{100}$

k.  $\frac{75}{100}$

l.  $1\frac{20}{100}$

*Try  
these!*

Write these as decimals;  $1\frac{1}{2}$     $1\frac{1}{4}$     $1\frac{1}{5}$

3. Write the following fractions as decimals.

a.  $\frac{1}{2} = \frac{\quad}{100} = 0,\underline{\quad}$

b.  $\frac{1}{5} = \frac{\quad}{100} = 0,\underline{\quad}$

c.  $\frac{3}{5} = \frac{\quad}{100} = 0,\underline{\quad}$

d.  $\frac{1}{20} = \frac{\quad}{100} = 0,\underline{\quad}$

e.  $\frac{3}{20} = \frac{\quad}{100} = 0,\underline{\quad}$

f.  $\frac{1}{25} = \frac{\quad}{100} = 0,\underline{\quad}$

g.  $\frac{3}{4} = \frac{\quad}{100} = 0,\underline{\quad}$

h.  $\frac{1}{50} = \frac{\quad}{100} = 0,\underline{\quad}$

i.  $\frac{3}{50} = \frac{\quad}{100} = 0,\underline{\quad}$

4. Write each fraction and the equivalent decimal. Choose answers from the circles.

a. 0,25

$$\frac{6}{10}$$

$$\frac{75}{100}$$

$$\frac{37}{100}$$

b. 0,37

$$\frac{3}{10}$$

c. 0.75

d. 0,6

e. 0,12

f. 0,33

$$\frac{35}{100}$$

$$\frac{25}{100}$$

$$\frac{4}{10}$$

$$\frac{33}{100}$$

$$\frac{12}{100}$$

g. 0,35

h. 0,3

i. 0,4

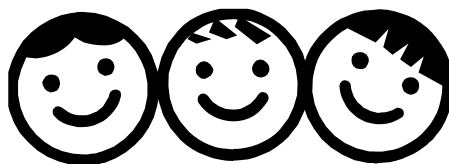
### Activity 3

Calculator fun



It's easy to write fractions as decimals when the denominator is 10, 100 or 1 000....  $\frac{3}{10} = 0,3$     $\frac{3}{100} = 0,03$     $\frac{3}{1\,000} = 0,003$    **but**

what happens when the denominator is not 10, 100 or 1 000?



We must write  $\frac{2}{5}$  as a fraction with a denominator of 10;

$$\frac{1}{5} = \frac{2}{10} = 0,2.$$

1. Write each fraction in tenths or hundredths, then write each fraction as a decimal.

Check your answer on a calculator.

Example:  $\frac{3}{20} = \frac{15}{100} = 0,15$ .....check on a calculator:  $3 \div 20 = 0,15$

$\frac{1}{25} = \frac{4}{100} = 0,04$ .....check on a calculator:  $1 \div 25 = 0,04$

a.  $\frac{2}{5}$

b.  $\frac{1}{2}$

c.  $\frac{3}{5}$

d.  $\frac{4}{5}$

e.  $\frac{1}{20}$

f.  $\frac{3}{25}$

g.  $\frac{3}{10}$

h.  $\frac{15}{100}$

i.  $\frac{1}{50}$

j.  $\frac{3}{50}$

k.  $\frac{7}{20}$

l.  $\frac{3}{100}$



**Activity 4**

**Thousandths**

1. Tenths ( $\frac{1}{10}$ )



10

**Example**



1 cube of 10 cubes =  $\frac{1}{10} = 0,1$

2 cubes of 10 cubes =  $\frac{2}{10} = 0,2$

Copy and complete.

a. 3 cubes =  $\frac{\square}{10} = \square$

b. 7 cubes =  $\frac{\square}{10} = \square$

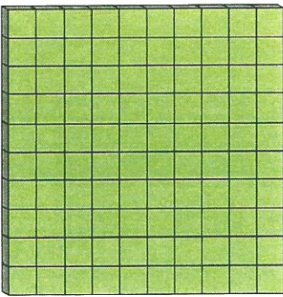
c. 5 cubes =  $\frac{\square}{10} = \square$

d. 9 cubes =  $\frac{\square}{10} = \square$

e. 8 cubes =  $\frac{\square}{10} = \square$

f. 10 cubes =  $\frac{\square}{10} = \square$

2. Hundredths ( $\frac{1}{100}$ )

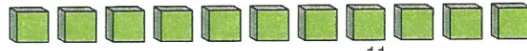


100

**Example**



1 cube of 100 cubes =  $\frac{1}{100} = 0,01$



11 cubes of 100 cubes =  $\frac{11}{100} = 0,11$

Copy and complete.

a. 9 cubes =  $\frac{\square}{100} = \square$

b. 7 cubes =  $\frac{\square}{100} = \square$

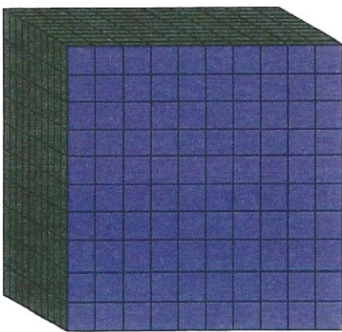
c. 53 cubes =  $\frac{\square}{100} = \square$

d. 9 cubes =  $\frac{\square}{100} = \square$

e. 99 cubes =  $\frac{\square}{100} = \square$

f. 10 cubes =  $\frac{\square}{100} = \square$

3. Thousandths ( $\frac{1}{1000}$ )

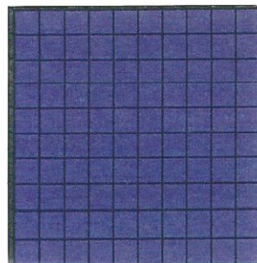


1000

**Example**



1 cube of 1 000 cubes =  $\frac{1}{1000} = 0,001$



112 cubes of 1 000 cubes  
=  $\frac{112}{1000} = 0,112$

Copy and complete.

a. 234 cubes =  $\frac{\square}{1000} = \square$

b. 7 cubes =  $\frac{\square}{1000} = \square$

c. 85 cubes =  $\frac{\square}{1000} = \square$

d. 73 cubes =  $\frac{\square}{1000} = \square$

e. 1 000 cubes =  $\frac{\square}{1000} = \square$

f. 8 cubes =  $\frac{\square}{1000} = \square$

4. Writing fractions as decimals.

Work out the message in decimal code...

1. Change each fraction to a decimal.

2. Match it to the decimals given.

3. Write the correct letter and find the answer.

a.  $\frac{43}{100}$  I

b.  $\frac{2}{5}$  U

c.  $\frac{3}{10}$  E

d.  $\frac{5}{100}$  L

e.  $\frac{1}{25}$  R

f.  $\frac{37}{1000}$  C

g.  $\frac{735}{1000}$  A

h.  $\frac{72}{100}$  M

i.  $\frac{1}{1000}$  S

j.  $\frac{1}{20}$  N

k.  $\frac{4}{5}$  F

l.  $\frac{9}{10}$  D

\_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 0,9    0,3    0,037    0,43    0,72    0,735    0,05    0,001

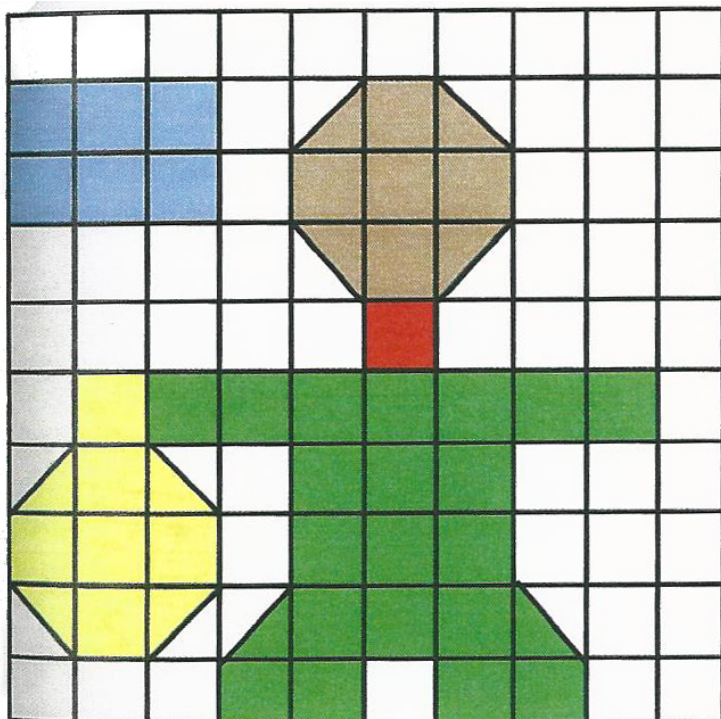
\_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
 0,735    0,04    0,3

\_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_!  
 0,8    0,4    0,05

5. Calculate decimals from the hundred square.

Copy the table into your book.

What do we do with the half squares?



		No. of squares	Common fraction	Decimal fraction
Example	Charlie's neck	1	$\frac{1}{100}$	0,01
a.	Bank			
b.	Charlie's head			
c.	Charlie's body			
d.	Money bag			

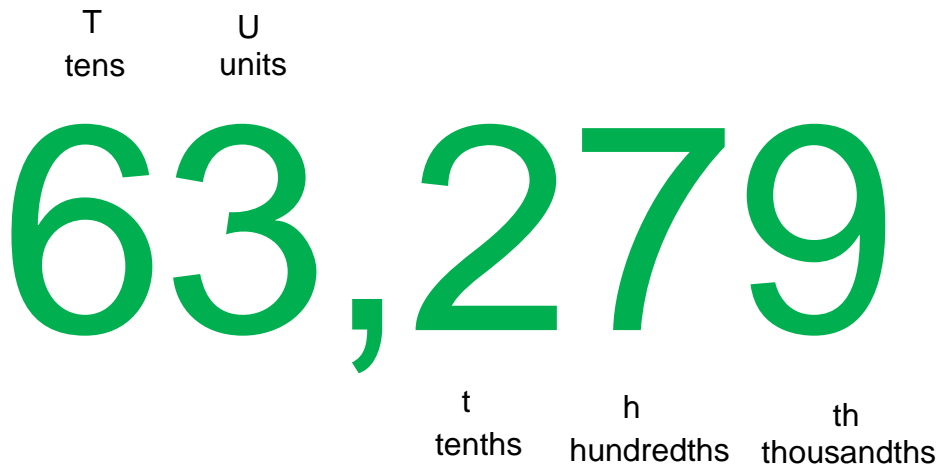
## Unit 9

### Decimals

#### Activity 1

#### Place value

Place value is very important when working with decimals!



To read this number correctly we would say:



Sixty three comma two seven nine.

That means we have 6 tens, 3 units, 2 tenths, 7 hundredths and 9 thousandths or:

$$20 + 3 + \frac{2}{10} + \frac{7}{100} + \frac{9}{1\,000} \text{ or:}$$

$$20 + 3 + 0,2 + 0,07 + 0,009.$$

1. Write the place value of the underlined digits.

Example:  $4\underline{5}6,1\underline{3}\underline{9}$  → 5 T

$$\frac{1}{10} \quad \text{t}$$

$$\frac{9}{1\,000} \quad \text{th}$$

- a. 142,853                      b. 6 486,219                      c. 197,253  
 d. 49,756                      e. 583,172                      f. 9 721,934

2. Write these numbers in digits. Place the decimal comma in the correct position.

Example: four hundred, seven tenths and five thousandths

TH	H	T	U	,	t / $\frac{1}{10}$	h / $\frac{1}{100}$	th / $\frac{1}{1000}$
	4	0	0	,	7	0	5

If you would like to, use a table like the one above.

- a. three thousand, five units, six tenths and seven thousandths.  
 b. two hundred, seven tenths, one unit and two hundredths.  
 c. four thousand, three hundredths, two units and nine tenths.  
 d. five tens, three hundreds, seven tenths and two units.

e.  $300 + \frac{7}{10} + 5 + \frac{9}{1000} + \frac{2}{100}$

f.  $7 + 4\,000 + \frac{5}{10} + \frac{6}{1000}$

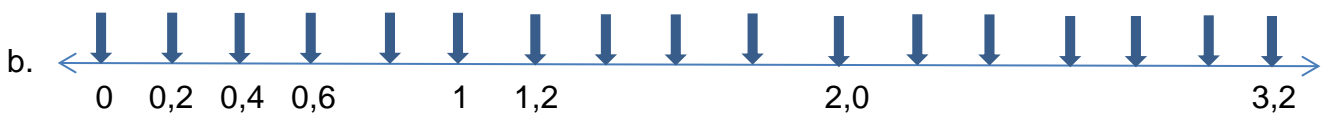
g.  $200 + \frac{1}{100} + 3\,000 + 5$

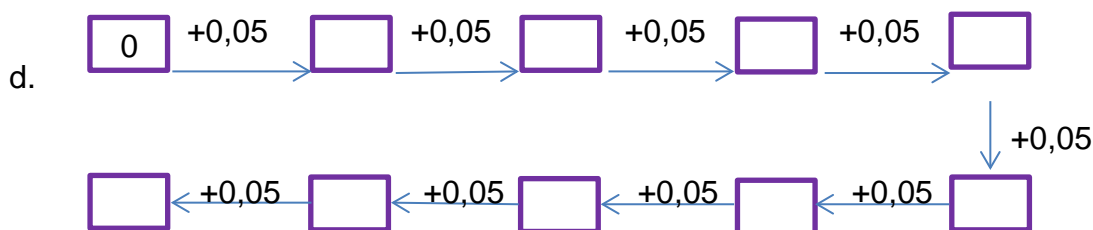
h.  $70 + 100 + 2\,000 + \frac{1}{10} + \frac{4}{100}$

## Activity 2

### Counting and ordering decimals

1. Count and write the decimal number sequence.





2. Copy these decimal pairs into your book. Replace \* with <, > or =.

Example:

12,3  $>$  12,03      6,235  $<$  6,3      4,1  $=$  4,10

a. 1,14    2,0

b. 4,02    8,42

c. 7,41    7,14

d. 11,39    13,39

e. 64,07    64,7

f. 8,20    8,19

g. 6,08    6,10

h. 5,42    5,4

i. 10,01    11,11

j. 9,99    10,0

3. Copy and complete the counting patterns.

a. 3,6; 3,8; 4,0; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

b. 2,50; 2,55; 2,60; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

c. 0,13; 0,12; 0,11; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

d. 4,44; 4,42; 4,40; 4,38; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

e. 7,50; 7,45; 7,40; 7,35; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

f. 3,06; 3,09; 3,12; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

g. 12,32; 12,28; 12,24; 12,20; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

4. Use the decimals below to answer questions a – c.

0,3

0,1

0,5

0,03

0,001

0,05

a. Write the largest number.

b. Write the smallest number.

c. Order the numbers from smallest to largest.

**Activity 3****Addition and subtraction with 2 decimal places**

Do you remember how to add or subtract decimals in columns?

\*\* Keep decimal commas underneath each other.

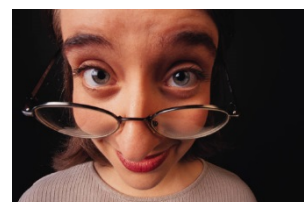
\*\* Add or subtract as normal.

Example 1: Addition:

$$\begin{array}{r} 11 \\ 39,45 \\ + 26,82 \\ \hline 66,27 \end{array}$$

Example 2: Subtraction:

$$\begin{array}{r} 8151 \\ 95,62 \\ - 47,38 \\ \hline 48,24 \end{array}$$



1. Copy and complete. Estimate your answer before you calculate.

Example:  $39,45 + 26,82 \dots$   $39,45$  is nearly  $40$

$26,82$  is nearly  $27$

so  $40 + 27 = 67$

your answer should be close to  $67 \dots$

a.  $16,27 + 12,08$

b.  $14,82 + 37,71$

c.  $53,16 + 24,73$

d.  $29,54 + 36,83$

e.  $32,15 + 37,24$

f.  $60,37 + 26,99$

g.  $86,42 - 36,81$

h.  $73,51 - 32,78$

i.  $59,13 - 28,42$

j.  $95,99 - 38,12$

k.  $56,43 - 18,17$

l.  $65,19 - 27,23$

## 2. Word problems

- a. Detective Decimal bought a new suit for work. The jacket cost him R387,24 and the pants cost him R102,87. How much change did he get from 3 R200 notes?
- b. Peter the painter uses 3,75 litres of paint for the fence and 1,65 litres for the gate. How much paint has he got left from a 10 litre tin?

**Activity 4****Multiplication by 10 and 100**

Number	TH	H	T	U	,	t	h	th
24,5x1			2	4	,	5		
24,5x10		2	4	5	,	0		
24,5x100	2	4	5	0	,	0		
3,68x1				3	,	6	8	
3,68x10			3	6	,	8		
3,68x100		3	6	8	,	0		

Multiply each number by 10 and 100.

a. 3,54

b. 15,78

c. 29,20

d. 38,41



## Unit 10

### Capacity

#### Activity 1

Capacity is the **amount of space** inside a container or **how much liquid a container can hold**.



1. Write the name of each container. Say if you would measure the liquid in ml or l.  
Example: cup: ml.

2. A hosepipe can use up to 30l of water a minute.  
How many l of water would a hosepipe use in:

- 5 minutes?
- $7\frac{1}{2}$  minutes?
- 10 minutes?
- 15 minutes?
- $\frac{1}{2}$  an hour?
- 1 hour?



#### Activity 2

##### Conversions

**Remember:**  $1\text{ l} = 1\ 000\text{ ml}$  so....

$$\frac{1}{2}\text{ l} = 500\text{ ml} \quad \frac{1}{4}\text{ l} = 250\text{ ml} \quad \frac{1}{5}\text{ l} = 200\text{ ml} \quad \frac{1}{10}\text{ l} = 100\text{ ml}$$

1. Replace \* with < > or =.

a.  $\frac{1}{2}\text{ l} * 500\text{ ml}$

b.  $\frac{1}{4}\text{ l} * 200\text{ ml}$

c.  $\frac{3}{4}\text{ l} * 800\text{ ml}$

d.  $\frac{1}{10}\text{ l} * 100\text{ ml}$

e.  $\frac{1}{5}\text{ l} * 250\text{ ml}$

f.  $\frac{9}{10}\text{ l} * 900\text{ ml}$

g.  $\frac{2}{5}\text{ l} * 400\text{ ml}$

h.  $\frac{3}{5}\text{ l} * 350\text{ ml}$

2. Copy and complete the sentences.



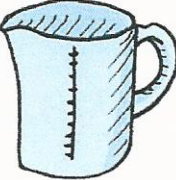



- There are \_\_\_\_ 500ml in 4l.
- There are \_\_\_\_ 250ml in 4l.
- There are \_\_\_\_ 500ml in 6,5l.
- There are \_\_\_\_ 250ml in 6,5l.
- There are \_\_\_\_ 500ml in 12,5l.
- There are \_\_\_\_ 250ml in 12,5l.

3. Copy and complete the table.

	Fraction	Decimal	l & ml
Ex:	$2\frac{1}{2}l$	2,5l	2l 500ml
a	$\frac{1}{4}l$		
b	$\frac{3}{4}l$		
c		1,5l	
d			3l 250ml
e		5,25l	
f		1,1l	
g			4l 200ml

### Activity 3

#### Measuring capacity.

 5 ml	 250 ml
 1 l	 125 ml
 5 l	 25 ml

1. Which instrument would you use to measure the following:

- water to fill a kettle
- cough medicine
- milk for a pudding recipe
- water to dilute powdered coldrink
- flour to make bread
- water to wash clothes
- half a cup of sugar to bake a cake

**Activity 4**

**Reading capacity**

Remember to take your reading from the bottom of the curve of water (meniscus).

I notice that the level of the water in the wide container is lower than the water in the narrow container.

Don't be fooled by the level of the water. Both containers have 350 ml of water.

1. Write the correct capacity for each container.

Secondly, round off each reading to the nearest 100ml.

1.  $50\text{ ml} \approx 100\text{ ml}$

2.

3.

4.

5.

6.

7.

**Activity 5****Kilolitres, litres and millilitres**

*When we measure large amounts of liquids we measure in kilolitres (kl)*

*1 kl = 1 000 ℓ.*

The water in water tanks and dams would be measured in kilolitres.

1. Copy and complete.

a.  $2\text{kl} = \underline{\quad}\ell$       b.  $2\frac{1}{2}\text{kl} = \underline{\quad}\ell$       c.  $3\frac{1}{4}\text{kl} = \underline{\quad}\ell$

d.  $1\frac{3}{4}\text{kl} = \underline{\quad}\ell$       e.  $6,5\text{kl} = \underline{\quad}\ell$       f.  $6\text{kl} = \underline{\quad}\ell$

g.  $2\frac{1}{5}\text{kl} = \underline{\quad}\ell$       h.  $2,4\text{kl} = \underline{\quad}\ell$       i.  $3,75\text{kl} = \underline{\quad}\ell$

2. Next to each object, write the correct capacity.

a. a teacup:                      20mℓ                      200mℓ                      2ℓ

b. a raindrop:                      1mℓ                      10mℓ                      100mℓ

c. a water tank:                      2,5ℓ                      25ℓ                      2,5kl

d. a car's petrol tank:                      6ℓ                      60ℓ                      600ℓ

e. a teapot:                      10mℓ                      1ℓ                      10ℓ

f. a mug:                      35mℓ                      350mℓ                      3ℓ

g. a swimming pool:                      60ℓ                      600ℓ                      6kl

3. Calculate:

a. 25% of 100ℓ =  $\underline{\quad}\ell$

b. 6ℓ 312mℓ =  $\underline{\quad}\text{mℓ}$

c. 10 000ℓ =  $\underline{\quad}\ell$

d. 20% of 60ℓ =  $\underline{\quad}\text{kl}$







e. 10% of 50mℓ =  $\underline{\quad}\text{mℓ}$

f. 4ℓ 250mℓ =  $\underline{\quad}\text{mℓ}$

**Activity 6****Word Problems.**

Solve the word problems, showing the working out in full.

1.

January	February	March	April	May	<input type="checkbox"/>
					

**Tom's  
Take away**

- How many litres of oil did Tom's Take away use from January to May?
- Tom's take away used 400ℓ of oil in the first 6 months of the year. How much oil was used in the month of June?
- Oil costs R18,50 per litre. How much did Tom pay for the 400ℓ ?

2. Every day, Miss Feni uses:

60ℓ of water to bath

6ℓ of water to wash dishes

2,5ℓ of water for cooking

1,5ℓ of water for drinking.

How much water does Miss Feni use in the month of June?



3. The ladies at the soup kitchen make 9ℓ of soup. 1 cup holds 250mℓ of soup.

How many people can have a cup of soup?

4. Pancake recipe for 10 pancakes:

250ml flour

125ml milk

150ml warm water

1 egg

10ml oil

5ml baking powder

Write the ingredients you would need to make 60 pancakes for the class party.

## Mental Maths with Vocabulary

### Exercise 1

- Multiply 40 by 60.
- Round off 6 452 to the nearest 100.
- Write 345 281 in words.
- How many litres in 2,5 kilolitres?
- Add 625 and 925.
- How many nines in one hundred and eight?
- Write 0,7 as a common fraction.
- Write the first 5 multiples of 15.

### Exercise 2

- Round off 6 452 to the nearest 1 000.
- Write all the factors of 30.
- Write the place value of the underlined digits: 43 120.
- Write  $\frac{12}{100}$  as a decimal fraction.
- Multiply 80 by 400.
- Divide fifty thousand by one hundred.
- How many fives in one hundred?
- Write the smallest number using a 9; 2; 0; 7; 3; 6.

### Exercise 3

- Divide 3 600 by 10.
- Which is bigger: 2,2 or 2,09?
- Add 12, 5 and 3,45.
- How many twelves in 132?
- Write the place value of the 4 in 36,4.
- Write all the factors of 25.
- Write the first five multiples of 25.
- Write the biggest number using a 4; 0; 3; 7; 2; 8.

### Exercise 4

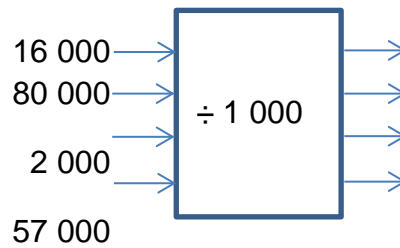
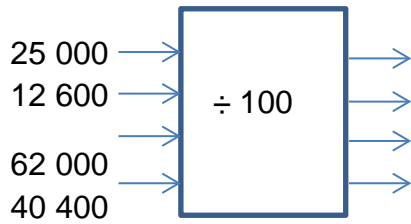
- Subtract 4 500 from 64 000.
- Write 737 584 in expanded notation.
- What is the cost of 300 pencils at R5 each?
- True or false: 1,5 is bigger than 1,450.
- Write  $10\frac{1}{5}$  as a decimal.
- Halve the number 442 626.
- How many millilitres in  $2\frac{1}{2}$  litres?
- Write  $\frac{7}{100}$  as a decimal.

### Exercise 5

- Write the next three numbers: 346,2; 346,4; 346,6; \_\_\_\_; \_\_\_\_; \_\_\_\_
- Write as a number: two hundred and forty thousand four hundred and one.
- Write in words: 487 203.
- True or false: a square based pyramid has five flat surfaces.
- True or false: a cylinder has only flat faces.
- One hundred pens cost R250. What is the cost of 1 pen?
- Write these decimals from smallest to biggest: 0,5; 0,25; 0,35; 0,4.
- I have four triangular faces. What am I?

## Informal Assessment

1. Copy and complete the flow diagrams.



2. Division with remainders.

Copy and complete the number sentences.

a.  $\underline{\quad} \div 4 = 12 \text{ rem } 3.$

e.  $73 \div \underline{\quad} = 8 \text{ rem } 1.$

b.  $102 \div \underline{\quad} = 10 \text{ rem } 2.$

f.  $\underline{\quad} \div 7 = 9 \text{ rem } 5.$

c.  $94 \div \underline{\quad} = 8 \text{ rem } 6.$

g.  $\underline{\quad} \div 8 = 6 \text{ rem } 2.$

d.  $\underline{\quad} \div 12 = 11 \text{ rem } 8.$

h.  $87 \div \underline{\quad} = 7 \text{ rem } 3.$

3. Calculate and check your answers by using multiplication.

a.  $4\,832 \div 19$

b.  $2\,361 \div 23$

c.  $5\,016 \div 31$

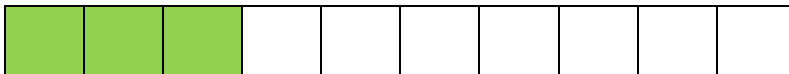
d.  $7\,178 \div 42$

e.  $1\,945 \div 17$

f.  $6\,947 \div 27$

4. Write each shaded part as a fraction and a decimal.

a.

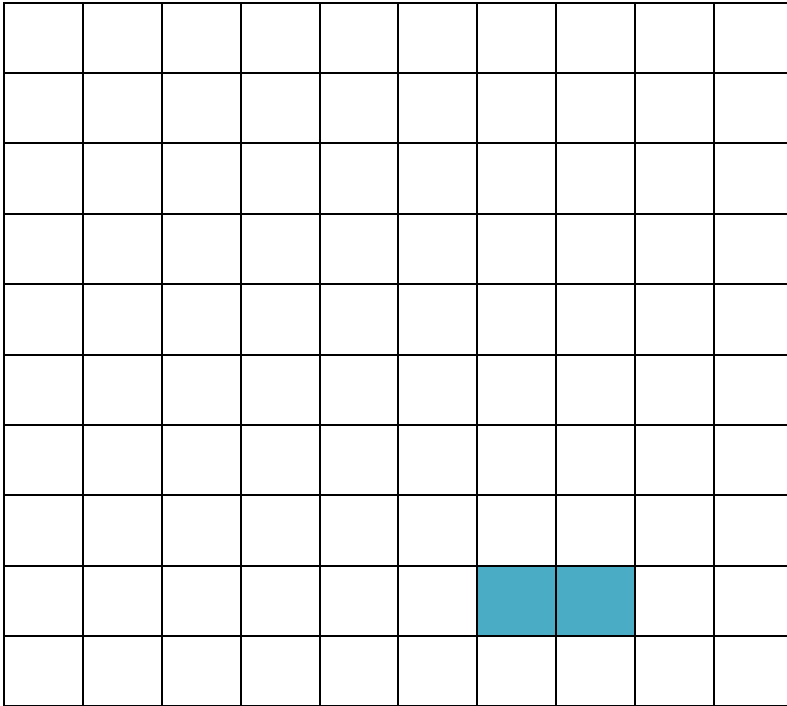


b.

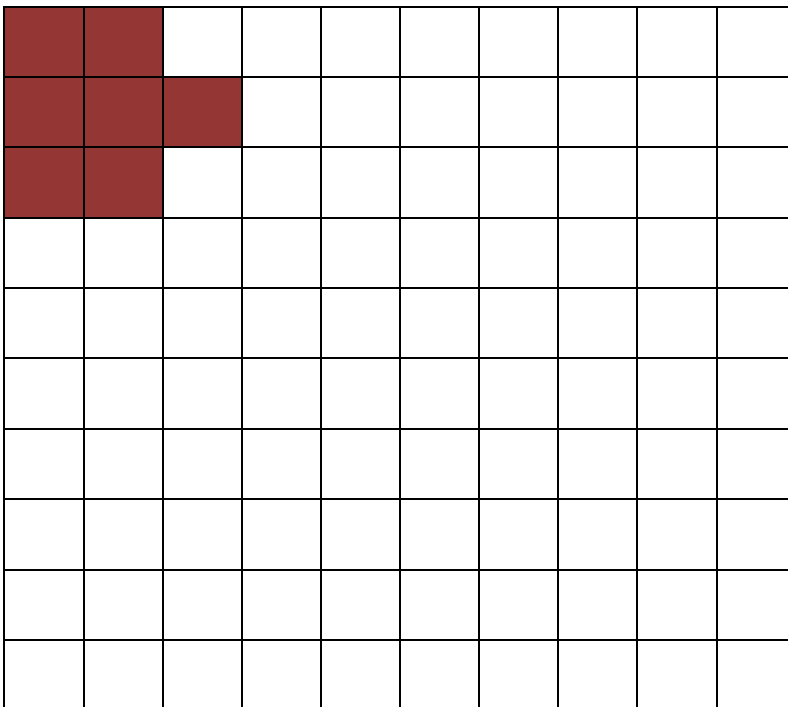




c.



d.



5. Write the place value of the underlined digits:

a.  $\underline{2}48,1\underline{4}5$

b.  $\underline{6} \underline{2}71,384$

c.  $3 \underline{9}04,67\underline{2}$

6. Copy and complete.

a.  $3,5+1,7$

b.  $7,6-2,0$

c.  $16,27+12,08$

d.  $65,19-27,23$

e.  $3,54 \times 10$

f.  $15,78 \times 100$

7. Capacity.

Replace \* with  $>$   $<$  or  $=$ .

a.  $\frac{1}{4}\text{kl} * 200\text{ml}$

b.  $\frac{1}{5}\text{kl} * 250\text{ml}$

c.  $\frac{9}{10}\text{l} * 900\text{ml}$

8. Copy and complete the sentences.

a. There are \_\_\_\_\_  $500\text{ml}$  in  $6,5\text{l}$ .

b. There are \_\_\_\_\_  $250\text{ml}$  in  $3\text{l}$ .

c. There are \_\_\_\_\_  $200\text{ml}$  in  $2\text{l}$ .

d. There are \_\_\_\_\_  $750\text{ml}$  in  $1,5\text{l}$ .

9. Copy and complete the table.

	Fraction	Decimal	l / ml
a.	$1\frac{1}{2}\text{l}$		
b.		$5,25\text{l}$	
c.			$3\text{l } 200\text{ml}$

10. Copy and complete.

a.  $2\text{kl} = \underline{\hspace{1cm}}\text{l}$

b.  $5,5\text{l} = \underline{\hspace{1cm}}\text{ml}$

c.  $7\ 500\text{ml} = \underline{\hspace{1cm}}\text{l}$

d.  $1\ 350\text{l} = \underline{\hspace{1cm}}\text{kl}$

e.  $20\text{l} = \underline{\hspace{1cm}}\text{ml}$

f.  $6\text{l } 200\text{ml} = \underline{\hspace{1cm}}\text{ml}$

g.  $25\%$  of  $100\text{l} = \underline{\hspace{1cm}}\text{l}$