



Fun with Maths 3.1

RECOMMENDED FOR USE IN GRADE 3



NAME _____

SCHOOL _____

GRADE _____



CONTENTS

Book 3 Part 1



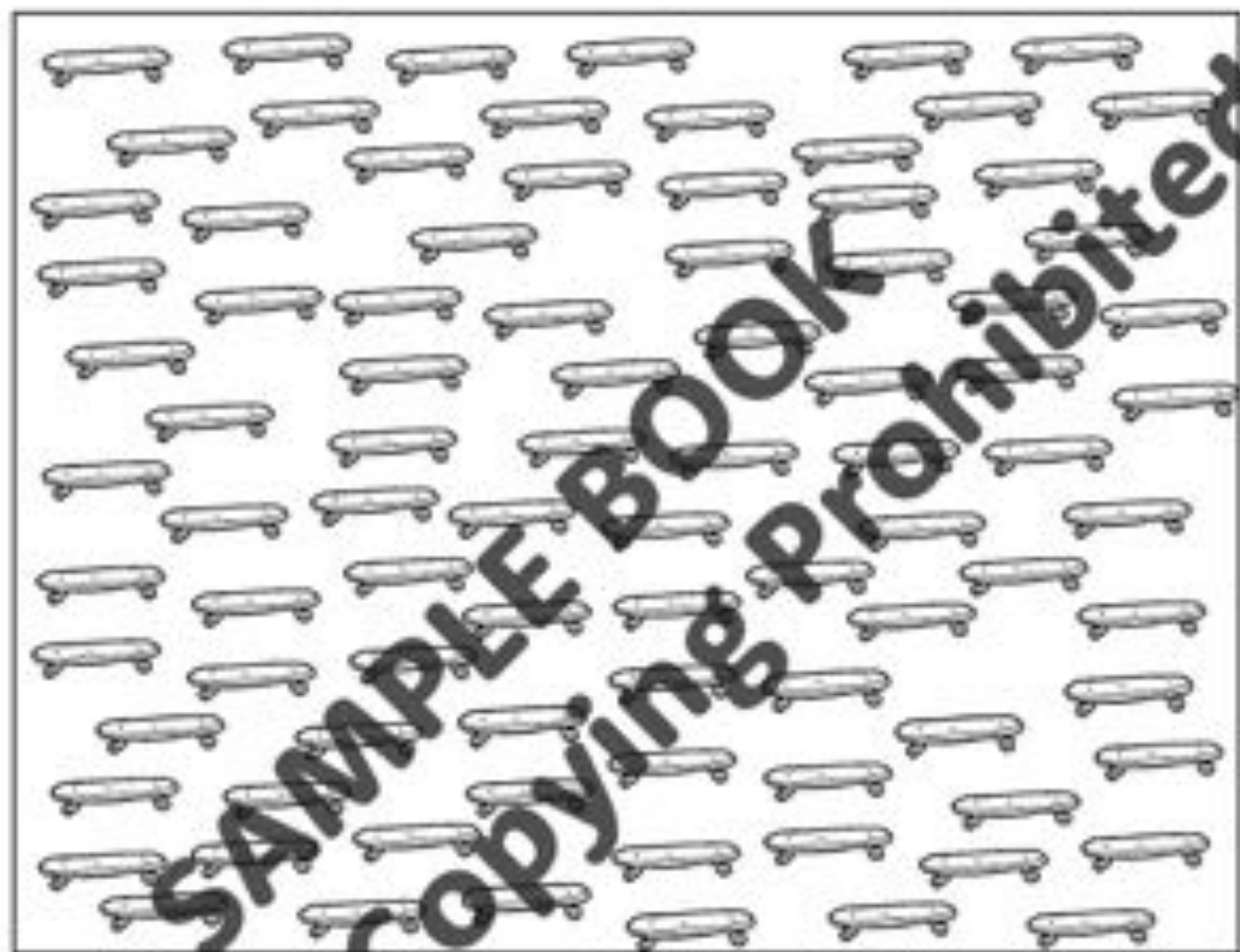
2-4	Numbers, operations and relationships; estimates; number names
5-8	Place value
9-12	Problem solving - addition, subtraction and repeated addition
13-15	Problem solving - doubling and halving; grouping and sharing leading to division
16-17	Grouping and sharing leading to fractions; fractions
18-20	Money
21-22	Addition using different methods
23-26	Subtraction using different methods; problem solving addition and subtraction
26-29	Multiplication
29-30	Division
31	Doubling
32-33	Fractions
34-35	Patterns and number patterns
36-37	Numbers, operations and relationships
37-38	Geometry - 2D shapes
38-41	Time
42-43	Use of a calendar; days, months, years, time
44-45	Volume
46-47	Data handling
48	Counting in 5s to 500
49	Estimating and counting in 50s to 1000
50	Counting in 10s, 4s and 3s
51	Ordering numbers
52	Ordinal numbers
53	Place value
54	Problem solving - rounding off
55-58	Problem solving - addition and subtraction; repeated addition
59-61	Fractions
62-63	Problem solving - sharing and grouping
64-66	Money
67	Addition and subtraction
68-70	Bonds to 30
71-72	Working with arrays; multiplication and division
73-75	Patterns and number sequences; space and shape
76	Measurement - time, length, estimate and measure
77	Data handling - pictograph

Date: _____ Estimate (guess)

2

Estimate how many skateboards there are, then count them to be sure.

HINT (use grouping to make the counting easier).



Estimate: _____

Count: _____

Did you estimate more or less than the correct quantity?



Fill in the missing numbers



		3		5	6		8	9	
11		13	14		16	17		19	20
21	22		24		26		28		30
		33		35				39	
41		43	44		46		48	49	50
	52		54	55		57			60
61		63		65			68	69	
71	72		74	75		77		79	80
	82	83			86		88	89	
91	92		94		96			99	100

Date: _____ Numbers, Operations and Relationships

Draw lines to connect the numbers with their number names.

220	one hundred and one
245	two hundred and fifty
250	two hundred and twenty
193	two hundred and forty-five
101	one hundred and ninety-three

Ordering numbers

Number before	Number name	Number after
131	one hundred and thirty-two	133
97		
	two hundred and twelve	
		80
	two hundred and one	
59		
	two hundred and seventy-four	

Join the dots from 485 - 500.



Two dinosaurs swallowed some rocks. Draw the rocks with numbers smaller than 350 in the stomach of the smaller dinosaur. Draw the rocks with numbers greater than 350 in the stomach of the larger dinosaur.



Write the value of the digit that is underlined.

71 7 tens = 70

10 _____

50 0 units = 0

85 _____

99 _____

8 _____

66 _____

42 _____

7 _____

66 _____

89 _____

13 _____

74 _____

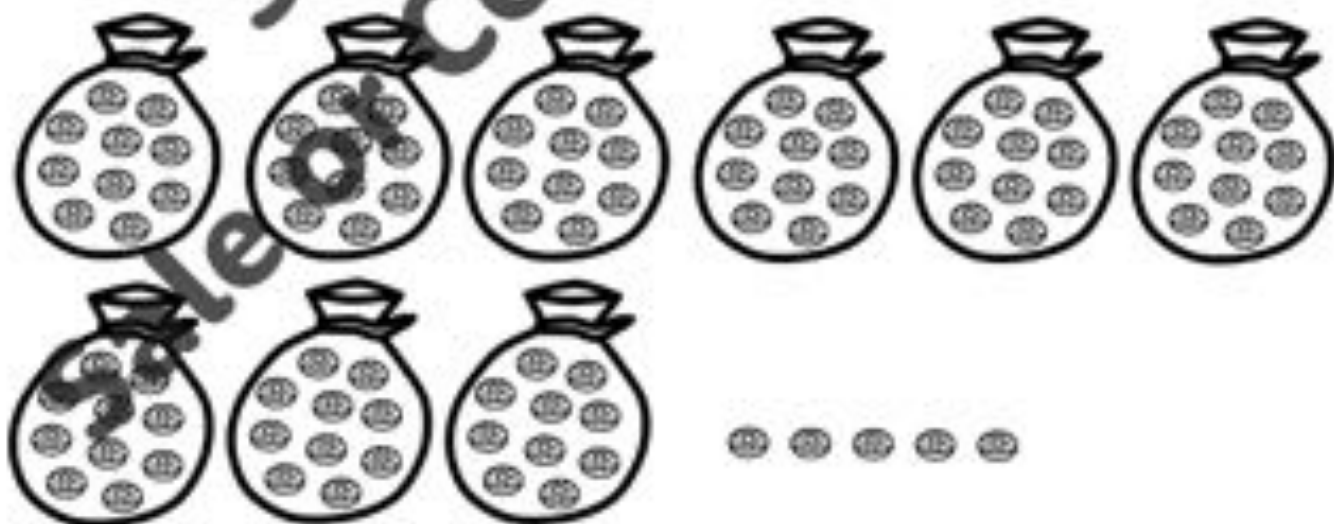
46 _____

32 _____

59 _____

Fill the bags with doughnuts.

Example: There are 95 doughnuts. Draw 10 in each bag. How many bags are there and how many are left over?



_____ There are 9 bags and 5 left over.

_____ 95 = 9 tens and 5 units

1. There are 49 doughnuts. Draw 10 in each bag. How many bags are there and how many doughnuts are left over?



There are _____ bags and _____ left over.

2. There are 23 doughnuts. Draw 10 in each bag. How many bags are there and how many doughnuts are left over?



There are _____ bags and _____ left over.

3. There are 37 doughnuts. Draw 10 in each bag. How many bags are there and how many doughnuts are left over?



There are _____ bags and _____ left over.

4.

Number		
Tens		Units
10	17	7
	23	
	39	
	40	
	55	
	68	
	72	
	84	
	91	



Date: _____ Place value

1. Using number building cards make the numbers below:

Example: 186

$$\begin{array}{|c|c|c|} \hline 1 & 0 & 0 \\ \hline & 8 & 0 \\ \hline & & 6 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 1 & 8 & 6 \\ \hline \end{array}$$

$$100 + 80 + 6 = 186$$

$$\begin{array}{|c|c|c|} \hline & & \\ \hline & & \\ \hline & & \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array}$$

$$163 \begin{array}{|c|c|c|} \hline & & \\ \hline & & \\ \hline & & \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array}$$

$$357 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$521 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$300 + 50 + 7 = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}}$$

$$498 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$632 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$223 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$776 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$589 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$326 \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$



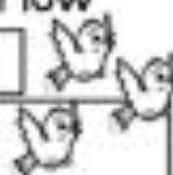
Date: _____ Problem Solving

1. In two classes at school there are 73 children. One of the classes has 36 children. How many children are there in the other class? □ □

2. At the restaurant the chef made 46 burgers with cheese on; 27 burgers with lettuce, tomato and cheese and 35 burgers with pickles. How many burgers had cheese on? □ □



3. There were 29 birds on the lawn, 18 flew away when the cat came. After the cat left, 46 birds came back. How many birds are now on the lawn? □ □



4. In the mall there are 5 jewellery shops, 35 clothing shops, 6 shoe shops, 8 food shops and 6 restaurants.

a) How many shops are there altogether? □ □

b) If 2 restaurants close down and 6 new furniture shops open, how many shops would there be? □ □

5. There were 37 fish in the fish pond. Dad bought 45 more. Birds ate 21 of the fish, so dad bought 30 new ones. How many fish are there altogether now?



6. There are many cars in the parking lot. 29 are silver, 31 are red, 11 are blue, and the rest are black. If there are 99 cars in the parking lot, how many are black?

7. At the hotel, the chef wants to make a fruit salad. He has 16 bananas, 22 oranges, 39 strawberries and 14 apples.
a) How many pieces of fruit does he have altogether?





- b) If he does not like the apples and leaves them out, how many pieces of fruit will there be?

Can you do this tricky one?

8. You have one pair of brown pants and one pair of black pants and three shirts - one orange, one red and one green. How many different outfits can you create?







Date: _____ Repeated Addition

1. There are 11 nests and each nest has 4 eggs. How many baby birds should be born?

2. How many eggs are there if there are 6 eggs in each carton and mom buys 8 cartons?



3. Three mother cats have 8 kittens each. How many kittens are there altogether?

--	--

--

4. Max plants 10 rows of cabbages with the same number of cabbages in each row. How many cabbages are there in each row if there are 50 cabbages?

--	--

--

5. Max plants 10 rows of carrots, with 4 carrots in each row. How many carrots will there be altogether?

--	--

--

6. In Max's vegetable garden there are 36 tomato plants that are planted in rows. There are 12 plants in each row. How many rows are there?

--	--

--



7. If each child in the class reads 2 books a day, how many books will be read if there are 25 children?

8. If I have 9 packets with 5 sweets in each one, how many sweets do I have altogether?

Date: _____

Using doubling and halving to solve problems

- /a. If Cam walks for 8 kilometers and his brother, Mitch, walks double the distance, how far does Mitch walk?

- b. If Cam's cousin Joy, walks 5 times more than Cam, how far does she walk?

- c. If Cam's grandpa walks half the distance that Joy walked, how far does he walk?



2a. The shop sells 22 cupcakes to Sam and twice as many to Kally. How many does Kally buy? □ □

b. Sam gives half of his cupcakes to Dora. How many does Dora have? □ □



3a. If Manny is reading a book which is 24 pages long and he is on page 9, has he read half of the book yet? _____

b. Which page will be half way? □ □



c. Luke is reading a book which has double the number of pages that Manny's book has. How many pages does Luke's book have? □ □

Date: _____

Grouping and sharing leading to division

1. If each school bus can seat 10 children and 50 children need to travel to the museum, how many buses are needed to transport all the children? □ □



2. If Sizwe wants to share 21 packets of chips amongst his 4 friends, how many packets of chips does each one of his friends get?



3. Simpiwe wants to divide her 39 crayons equally into 4 containers. How many crayons will go in each container and how many will be left over? and left over.



4. There are 11 players in a cricket team and 50 children want to play cricket. How many teams would the coach be able to make?

5. Six lifeboats carry a total of 42 people. How many people in each boat?



This is a tricky one:

6. If Sanette multiplies her age by 3, the number is 27. How old is she?



Date: _____

Grouping and sharing leading to fractions

Draw your answers:

1. Share 8 sandwiches amongst 3 friends so they all get the same quantity of food with nothing left over.



2. Share 15 bars of chocolate amongst 4 friends so that they all get the same quantity of chocolate with nothing left over.



3. Share 10 pizzas amongst 6 friends so that they all get the same quantity of pizza with nothing left over.

Answer the following questions:

4. What is one third of 15 marbles? _____

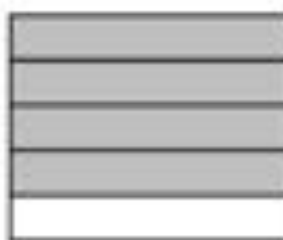
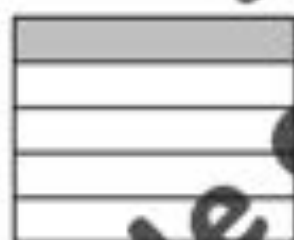
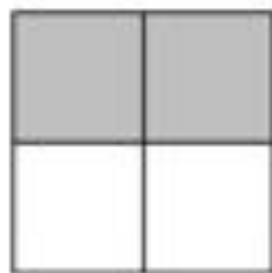
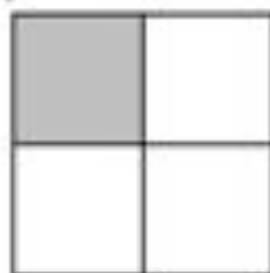
5. What is one half of 22 sweets? _____

6. What is one fifth of 25 potatoes? _____

7. If Tayla is one third of her older brother's age and he is 18, how old is she? _____

8. Mila wants to save one sixth of her birthday money. How¹⁷ much must she save if she gets R/8? _____

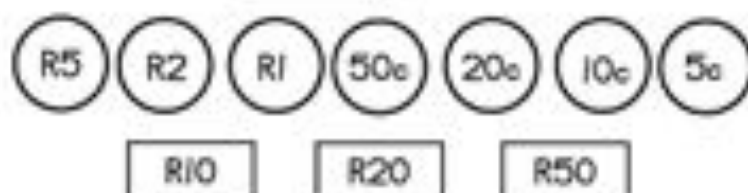
9. Write the correct fraction for the shaded area of these pictures below.



This is a tricky one:



Date: _____ Money



1. If Sarah gets paid R5 to work in the garden twice a week, what will she get paid in one month? _____

2. Tina wants to buy a book for R79. She only has R55. How much more money does she need? _____

3. In her purse Linda has a R50, R20, R10, R10, R5 and R2, R2. How much money does she have altogether? _____

- b. Does she have enough money to buy one of each product below? _____

- c. How much bread and milk can she buy? How much change will she get? _____



R20



R11



R8



R12



R9

4. Mom buys 3 cushions that cost R90 each, how much change will she get from R300? _____

5. William wants to buy one packet of 6 gums that costs 33 cents. If he buys 2 packets, how much will he pay and how many gums will he get? _____

6.

Item	Price	Pay with	Change
	R68	R100	
	R38	R100	
	R24	R100	
	R17	R100	

7.

Price	Total	Pay with	Change
5 sweets for 80c each		R2	
5 sweets for 50c each		R5	
4 sweets for 20c each		R1	
3 sweets for 40c each		R1,50	

8. Convert the numbers in cents to rands and cents.

436 cents	
R 4	36 c
296 cents	
R	c
150 cents	
R	c

308 cents	
R	c
510 cents	
R	c
352 cents	
R	c

9. Sipho has one 50c piece and four 20c pieces. If the sweet he wants costs R1,20, how much change will he get? _____

--

10. Write down 4 different ways you can make R4,00 using any number of these notes: R200, R100, R50, R20, R10.

--

Date: _____ Addition

Use these methods to help you. Choose one method to find the answers to the sums.

$$\begin{aligned}
 34 + 45 &= \square \\
 &= (30 + 4) + (40 + 5) \\
 &= 70 + 9 \\
 &= 79
 \end{aligned}$$

or

34
+45
—
—

$$\begin{aligned}
 34 + 45 &= \square \\
 &= 34 + (40 + 5) \\
 &= (34 + 40) + 5 \\
 &= 74 + 5 \\
 &= 79
 \end{aligned}$$

$$34 + 45 = \square$$

or

$$= 34 + (10 + 10 + 10 + 10 + 5)$$

$$= 34 + 10 \rightarrow 44 + 10 \rightarrow 54 + 10 \rightarrow 64 + 10 \rightarrow +5$$

$$= 79$$

$$84 + 14 = \square \square$$

$$71 + 17 = \square \square$$

$$72 + 24 = \square \square$$

$$18 + 31 = \square \square$$

$$52 + 26 = \square \square$$

$$21 + 48 = \square \square$$

$$15 + 62 = \square \square$$

$$16 + 53 = \square \square$$



$13 + 75 = \square\square$

$18 + 80 = \square\square$

Use halving as a method

Example: $69 + 12$
 $= 69 + (6+6)$
 $= 69 + 6 \rightarrow 75 + 6$
 $= 81$

$82 + 14 = \square\square$

$71 + 16 = \square\square$

$8 + 56 = \square\square$

$18 + 41 = \square\square$

Date: _____ Subtraction

Use these methods to help you. Choose one to find the answers.

$$\begin{aligned} 97 - 45 &= \square \\ (90+7) - (40+5) \\ (90-40) + (7-5) \\ 50 + 2 \\ 52 \end{aligned}$$

or

97
-45
—

$$\begin{aligned} 97 - 45 &= \square \\ 97 - (40+5) \\ (97-40) - 5 \\ 57 - 5 \\ 52 \end{aligned}$$

$$\begin{aligned}
 &97 - 45 = \square \\
 \text{or } &= 97 - (10 + 10 + 10 + 10 + 5) \\
 &= 97 - 10 \rightarrow 87 - 10 \rightarrow 77 - 10 \rightarrow 67 - 10 \rightarrow 57 - 5 \\
 &= 52
 \end{aligned}$$

$84 - 52 = \square \square$

$65 - 50 = \square \square$

$98 - 26 = \square \square$

$74 - 41 = \square \square$

$59 - 18 = \square \square$

$93 - 82 = \square \square$

$76 - 33 = \square \square$

$67 - 44 = \square \square$



$99 - 68 = \square\square$

$82 - 71 = \square\square$

Date: _____

Practise addition and subtraction skills

$65 + 4 = \square\square$

$70 + 5 = \square\square$

$89 - 3 = \square\square$

$70 + 3 = \square\square$

$80 - 6 = \square\square$

$50 - 3 = \square\square$

$56 + 10 = \square\square$

$68 + 10 = \square\square$

$79 - 10 = \square \square$

$57 - 10 = \square \square$

$40 + 30 = \square \square$

$80 - 50 = \square \square$

$36 + 18 = \square \square$

$84 - 48 = \square \square$

$54 - 18 = \square \square$

$36 + 48 = \square \square$

$22 + 69 = \square \square$

$99 - 38 = \square \square$

$91 - 69 = \square \square$

$61 + 38 = \square \square$

Date: _____

Practise addition and subtraction skills

Vanessa has been given the answer: 20

Help her find the other numbers.

$\square + \square = 20$

$\square - \square = 20$

$\square + \square = 20$

$\square - \square = 20$

$\square + \square = 20$

$\square - \square = 20$

$\square + \square = 20$

$\square - \square = 20$

$\square + \square = 20$

$\square - \square = 20$

Date: _____ Multiplication



1 group of 3 = \square

$1 \times 3 = \square$



$3 + 3 = \square$

$2 \text{ threes} = \square$

$2 \times 3 = \square$



$3 + 3 + 3 = \square$

$3 \text{ threes} = \square$

$3 \times 3 = \square$



$3 + 3 + 3 + 3 = \square \square$

$4 \text{ threes} = \square \square$

$3 \times 3 = \square \square$

$6 \times 3 = \square \square$

$7 \times 3 = \square \square$

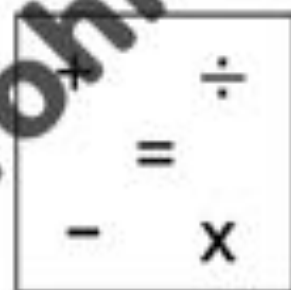
$8 \times 3 = \square \square$

$9 \times 3 = \square \square$

$10 \times 3 = \square \square$

Multiply: these numbers by 2. Choose the correct symbols to write the sums, then find the answer.

- 1 $\times 2 =$ _____
 2 _____
 3 _____
 4 _____
 5 _____
 6 _____
 7 _____
 8 _____
 9 _____
 10 _____



2

3

4

5

 $\times 4$

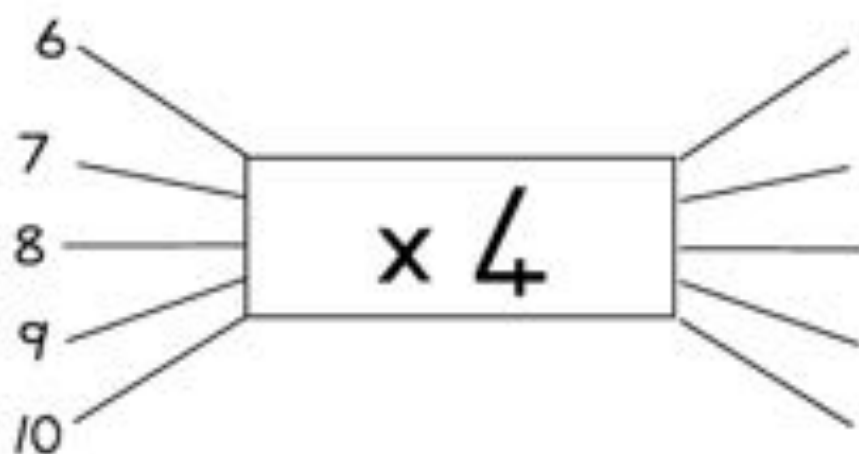
$1 \times 4 = \square$

$2 \times 4 = \square$

$3 \times 4 = \square \square$

$4 \times 4 = \square \square$

$5 \times 4 = \square \square$



$6 \times 4 = \boxed{}$

$7 \times 4 = \boxed{}$

$8 \times 4 = \boxed{}$

$9 \times 4 = \boxed{}$

$10 \times 4 = \boxed{}$

Date: _____

Ella is having a party for 50 friends. She puts out 10 dishes with 5 muffins in each dish. Help her multiply to see if she has a muffin for each person.



$1 \times 5 = \boxed{}$

$2 \times 5 = \boxed{}$

$3 \times 5 = \boxed{}$

$4 \times 5 = \boxed{}$

$5 \times 5 = \boxed{}$

$6 \times 5 = \boxed{}$

$7 \times 5 = \boxed{}$

$8 \times 5 = \boxed{}$

$9 \times 5 = \boxed{}$

$10 \times 5 = \boxed{}$



Date: _____ Practise multiplication

$1 \times 2 = \square$

$5 \times 3 = \square$

$7 \times 4 = \square$

$2 \times 2 = \square$

$3 \times 5 = \square$

$4 \times 7 = \square$

$6 \times 3 = \square$

$9 \times 2 = \square$

$10 \times 4 = \square$

$3 \times 6 = \square$

$2 \times 9 = \square$

$4 \times 10 = \square$

$18 = 3 \times \square$

$18 = 9 \times \square$

$40 = 10 \times \square$

$8 \times 5 = \square$

$7 \times 2 = \square$

$1 \times 4 = \square$

$5 \times 8 = \square$

$2 \times 7 = \square$

$4 \times 1 = \square$

$40 = 8 \times \square$

$14 = 7 \times \square$

$4 = 1 \times \square$

$10 \times 3 = \square$

$2 \times 6 = \square$

$6 \times 5 = \square$

$3 \times 10 = \square$

$6 \times 2 = \square$

$5 \times 6 = \square$

$30 = 10 \times \square$

$12 = 2 \times \square$

$30 = 6 \times \square$

Date: _____ Division



The division sign \div allows us to share!

1. Ben and Maddy have 6 sweets between them. They want to share them equally. Show how the sweets can be shared.

$$6 \div 2 = 3 \text{ or } 6 \text{ divided by } 2 = 3$$

2. Ben and Maddy have a friend named Alpheus. They want to share their 9 star stickers equally amongst the three of them. Show how the stickers can be shared.

$$9 \div 3 = \square$$

$$\text{or} \\ 9 \text{ divided by } 3 = \square$$



3. Ben, Maddy, Alpheus and Faizel want to share 8 oranges equally amongst themselves. Show how the oranges can be shared.

4. Selby has a bag of 10 marbles. If she shares them equally with her sister, how many marbles will they each get? Show how the marbles can be shared.




5. If 5 friends find 15 pine cones and share (divide) them equally amongst themselves, how many pine cones will each one get? Show how the pine cones can be shared.

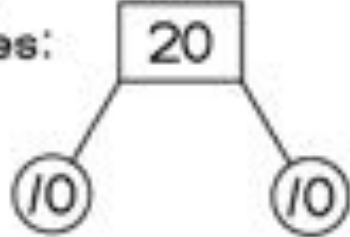

Date: _____ Doubling






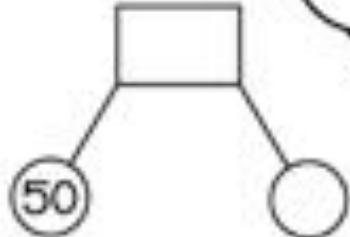

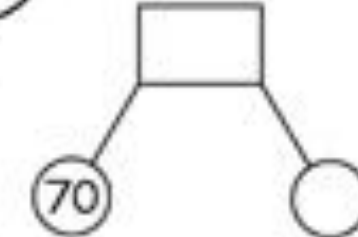
Fill in the missing numbers.


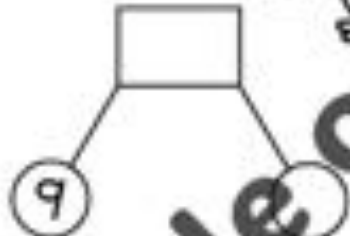
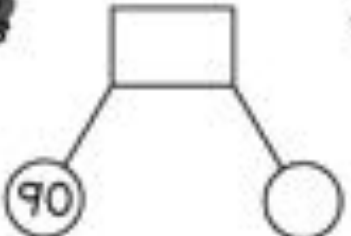
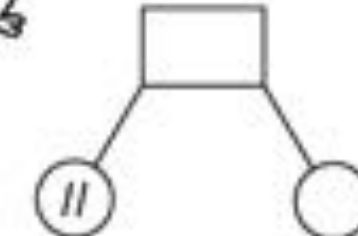
Examples:


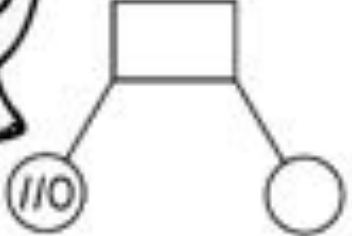






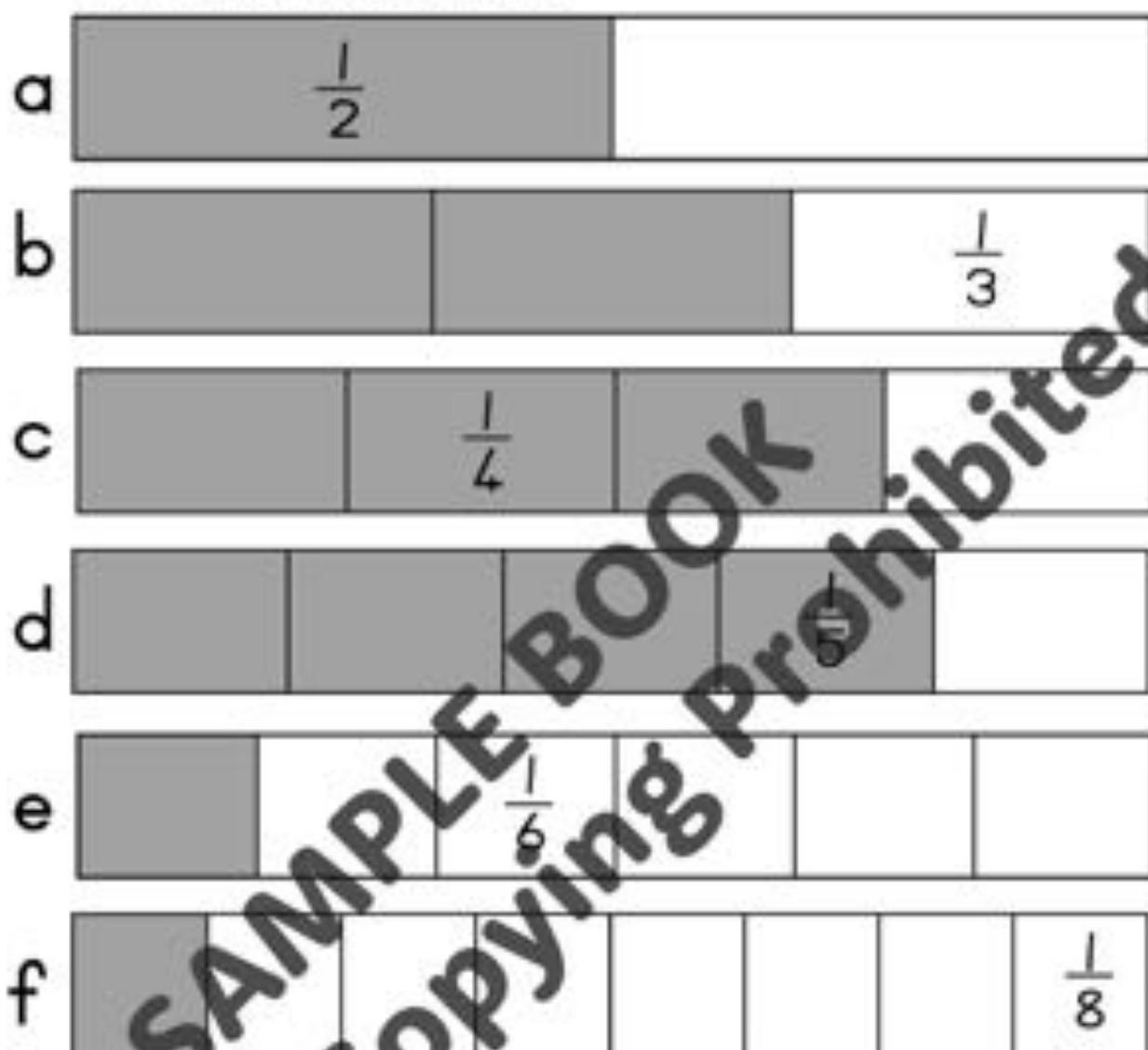







Fill in the fraction wall.



Draw lines to the correct answers.

4 fifths $\frac{4}{5}$ 2 thirds $\frac{2}{3}$ 5 eighths $\frac{5}{8}$ 1 half $\frac{1}{2}$ 1 sixth $\frac{1}{6}$ 3 quarters $\frac{3}{4}$

e

c

f

a

b

d

Colour the part of the shape described by the fraction.



$\frac{7}{8}$

7 eighths



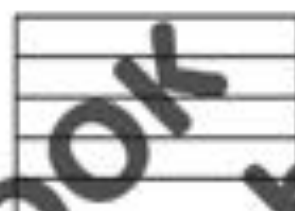
$\frac{2}{4}$

2 quarters



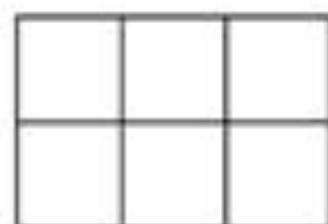
$\frac{1}{2}$

1 half



$\frac{2}{5}$

2 fifths



$\frac{5}{6}$

5 sixths

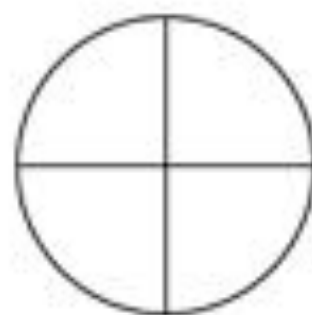


$\frac{2}{3}$

2 thirds



1 whole = _____ halves



1 whole = _____ quarters



1 whole = _____ thirds



1 whole = _____ eighths



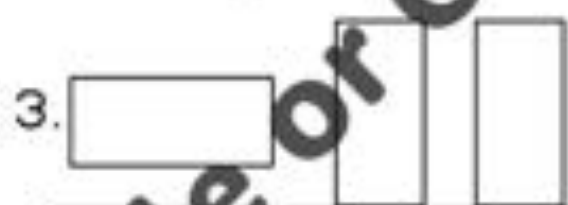
1 whole = _____ sixths

1 whole = _____ fifths

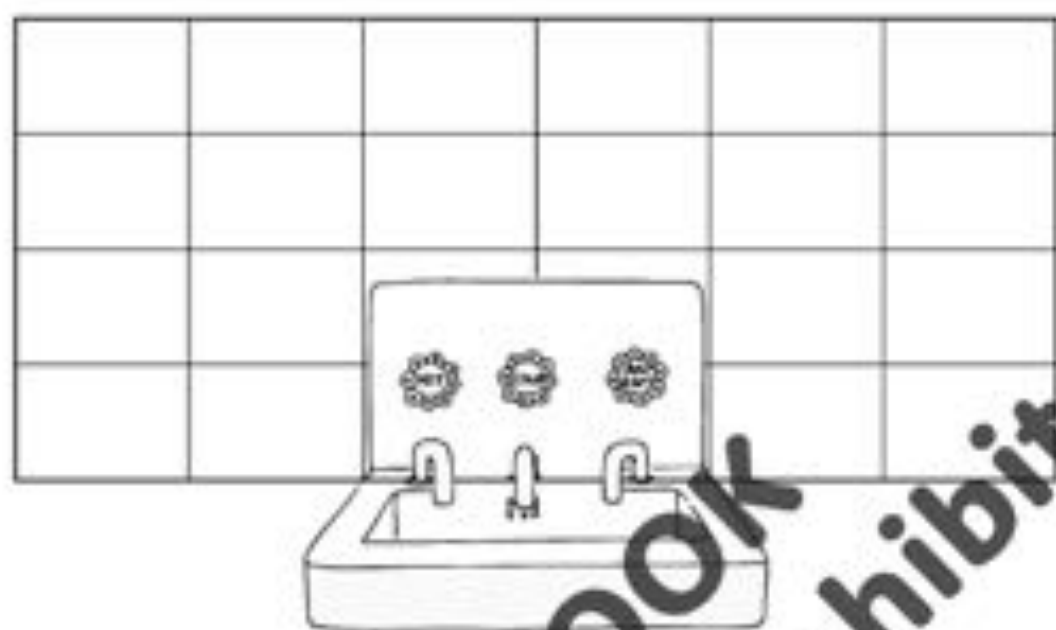
Date: _____

Algebra
Patterns

Complete the patterns.



Create your own pattern on these bathroom tiles.

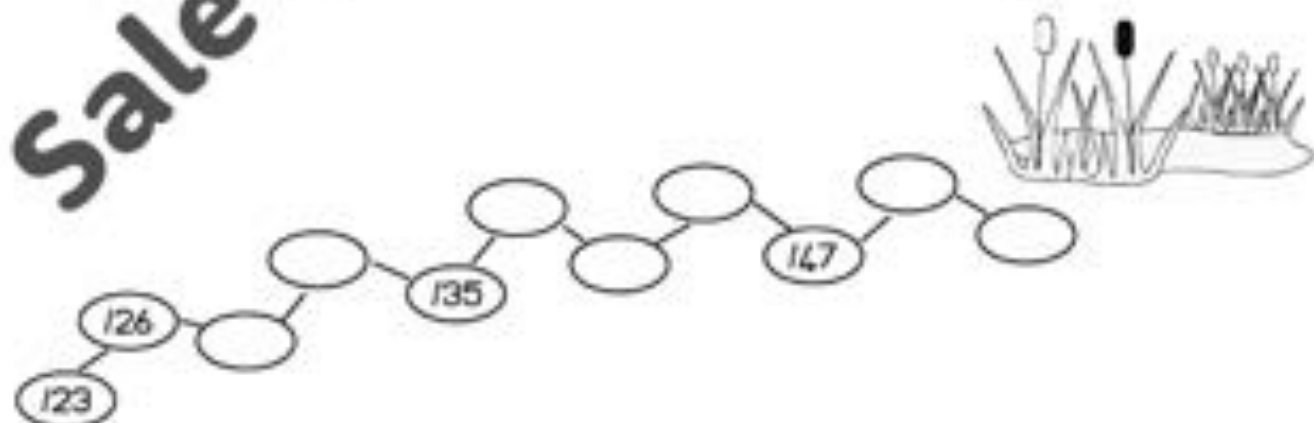


Date: _____ Number patterns

1. Thembi has lost some of the numbers for her chain. Help her to complete the chain.



2. Fill in the missing number steps to the pond.



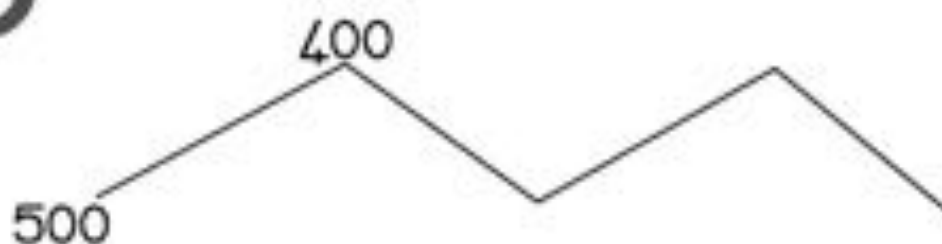
3. Fill in the missing numbers on the number line.



4. Fill in the missing numbers on the floors of the building.



5. Fill in the missing numbers.



6. Count in 4's and colour the numbers.

161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

7. Complete this table for Jeff to see how much it will cost him to shop at the tuckshop for 10 days.

R5 coins	1	2	3	4	5	6	7	8	9	10
Total money	R5	R10								

Date: _____

Geometry
2-D Shapes

1. Draw a circle above a square.

2. Draw a triangle in a rectangle.



3. Draw a square below a triangle.

4. Draw a circle next to a rectangle.

5. Draw 2 shapes with round sides in this box.



6. Draw 3 shapes with straight sides in this box.



Date: _____ Measurement: Time



Mom went to the shops.
How long was she there
for?





Gill had soccer practice.
How long did he play for?



Lebo played at Tumi's house.
How many minutes did they
play for?



How many hours did Gogo
wait at the hospital?



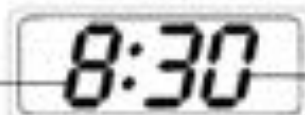
Date: _____

This is an analogue clock. It has hands, the minute and the hour hand.



This is a digital clock. It shows the time by using only numbers.

hours



minutes

Match the times on the digital clock with the same time on the analogue clock.

2:30

3:45

8:00

6:15

7:30

10:00

12:15

11:30

9:15



a.m. or p.m.



Write a.m. or p.m. in the boxes below.

1. Tim goes to school at 7 .
2. Mom comes home from work at 5 .
3. Becky plays tennis at 3 .
4. We have lunch at 12.30 .
5. We have breakfast at 6 .
6. Dad reads a bedtime story at 8 .
7. Granny hangs the washing out at 10 .
7. We watch TV at 7 .

Date: _____

2016

JANUARY							FEBRUARY							MARCH							APRIL						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2		1	2	3	4	5	6			1	2	3	4	5						1	2
3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	9
10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	14	15	16
17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
24	25	26	27	28	29	30	28	29						27	28	29	30	31			24	25	26	27	28	29	30
31																											
MAY							JUNE							JULY							AUGUST						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7			1	2	3	4				1	2									5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	29	30	31				
														31													
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3	3	4	5	6	7	8	9		1	2	3	4	5	6					1	2	3
4	5	6	7	8	9	10	10	11	12	13	14	15	16	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	17	18	19	20	21	22	23	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	18	19	20	21	22	23	24	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30		25	26	27	28	29	30	31	27	28	29				25	26	27	28	29	30	31	
							30	31																			

1. Circle the 12th July on the calendar.

2. What day is it? _____

3. What will the date be a month later? _____

4. What was the date two weeks before? _____

5. What will the date be in 6 months' time? _____

6. Name the months that have 31 days.

_____7. Name the months that have 30 days.

8. How many weeks is 21 days? _____

9. Look at the calendar and then complete this table: 43

Date	Day	Month
8	Monday	
22		July
1	Sunday	
29		February
25	Wednesday	
21	Saturday	



10. Which 3 months all start on a Friday?

11. How many months have a Monday the 18th?

12. How many months in a year?





13. In which month is New Year's Day?

14. Which two months end on a Sunday?

15. Which month has less than 30 days?










16. How many days are there altogether in January, February, March and April?

Litres and millilitres.

			
100 litres	1 litre	250 millilitres	5 millilitres

1. Circle more or less

Do these hold more or less than 1 litre?

 more less	 more less	 more less
 more less	 more less	 more less
 more less	 more less	 more less

Date: _____ Volume

 2 L	 330 ml	 1 L	 5 L	 500 ml
 350 ml	 250 ml	 5 ml	 1 L	 750 ml

Answer the questions by writing the litres of the containers on the lines.

1. Thabo is having 7 friends over to play. Which bottle of cold drink should he buy? 2 L
2. Which container is the biggest? _____
3. Granny lives alone. Which container of milk should she buy for herself? _____
4. Which bottle holds more, a 1 L bottle or a 750 ml bottle? _____
5. If Thabo fills the cup four times, which bottle will it fill? _____
6. Sipho needs to drink quickly before his meeting. Which drink should he buy? _____
7. If Auntie buys the 340 ml yoghurt but needs 680 ml, how much more yoghurt must she buy? _____

Date: _____ Volume

1. Draw a line to the correct answer.



1 litre

half litre

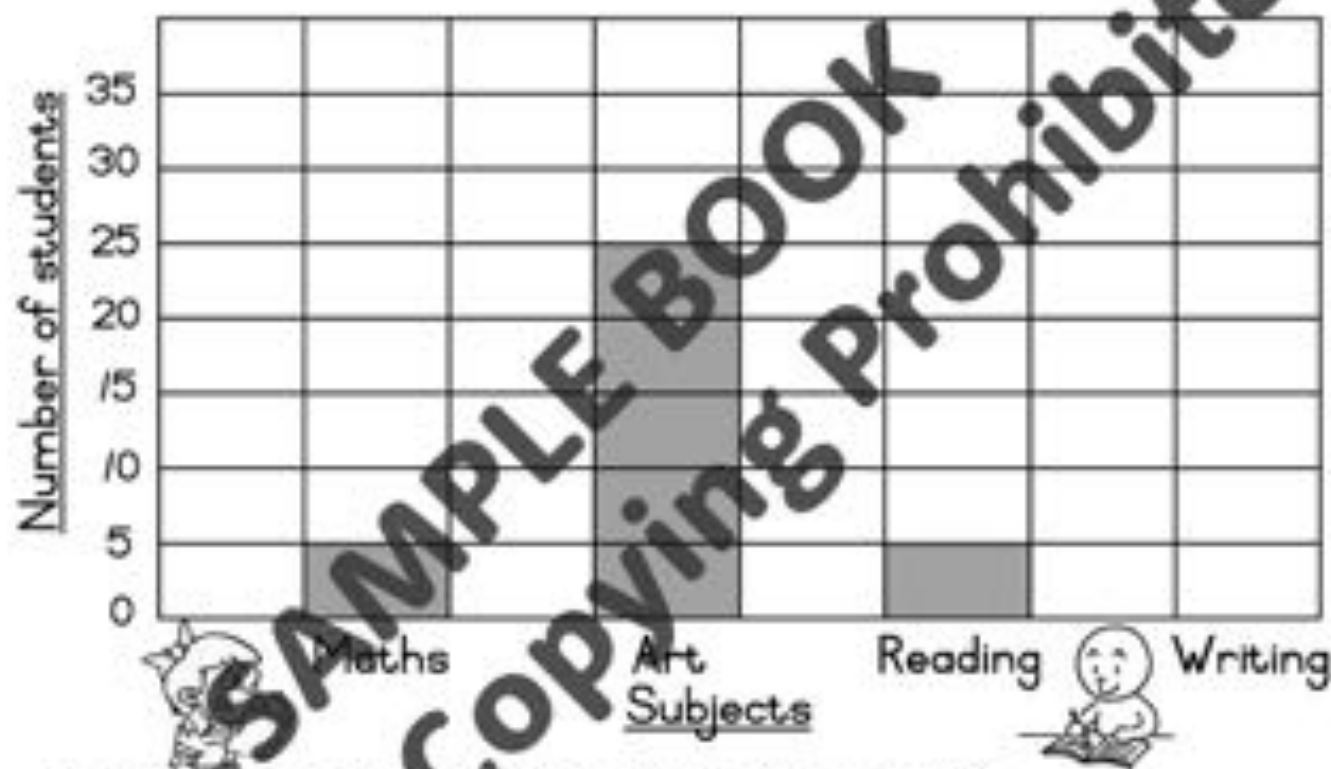
quarter litre

Did you know that...!
millilitre is about 20 drops.

2. James needs to fill his bucket to clean the floor. Will he use 9 litres of water or 9 millilitres? _____
3. If I buy a cup of orange juice, will it contain 250 litres or 250 millilitres? _____

Date: _____ Data handling

Bar graph. Favourite subject



- How many children like maths the most? _____
- How many children like writing the most? _____
- How many children like reading the most? _____
- How many children like art the most? _____
- Which two subjects have the same number of votes?

- How many children are there in the class? _____
- Which subject is the favourite for 25 children? _____

Date: _____ Tally

Busi sold sandwiches outside her house for 5 days in the holidays.

This table shows how many she sold.

Day	Sandwiches sold
Friday	
Saturday	
Monday	
Tuesday	
Wednesday	

1. Which day did Busi sell the most sandwiches?

2. How many did she sell?

3. Why do you think this was her busiest day?

4. Which day did she sell the least?

5. How many did she sell on Wednesday?

6. Which two days did she sell the same quantity of sandwiches?

Date: _____ Counting in 5's to 500

5	10	15	20		30	35	40	45	50
55	60		70	75	80		90	95	100
	110	115	120		130	135	140	145	150
155	X	165		175	180	185	190	195	200
	210	215	220	225		235	240	245	250
255		265	270	275	280	285	290	295	300
305	310	315		325	330	335		345	350
355	360	365	370	375		385	390	395	
	410	415	420		430	435	440	445	450
455	460		470	475	480	485	490	495	

What picture is on number:

380 _____ 25 _____ 160 _____

425 _____ 170 _____ 500 _____

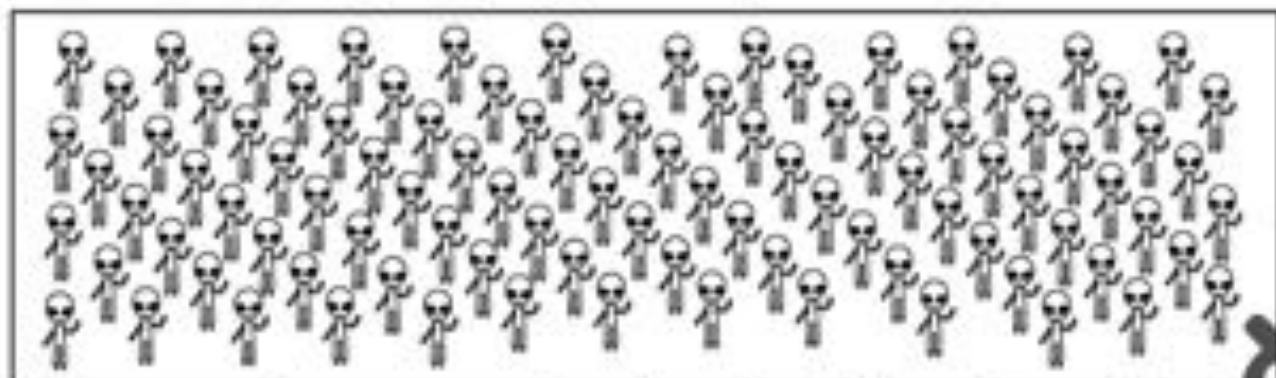
230 _____ 340 _____ 105 _____

85 _____ 405 _____ 230 _____

400 _____ 65 _____ 465 _____

320 _____ 125 _____ 205 _____

Date: _____



1. Estimate how many aliens have landed on planet Oregon. _____
2. Now count them. How many aliens are there? _____
3. Did you find an easy way to count all the aliens? _____

Date: _____

On this number grid count in 50's to 1000.

50	→	100
150	↘	
	→	200
350	↘	
	→	500
550	↘	
	→	700
750	↘	
	→	900
	↘	
	→	



1. Colour the 50's column red.
2. Colour the 100's column green.



Fill in the missing numbers. Count in 50's.



Date: _____ Order numbers

Break up these numbers into hundreds, tens and units.

Number	236 =	200	30	6
	124 =			
	301 =			
	480 =			
	373 =			
	500 =			

Now put the numbers in order from biggest to smallest.

Break up these numbers into hundreds, tens and units.

Number	252 =	200	50	2
	400 =			
	199 =			
	310 =			
	499 =			
	367 =			

Now put the numbers in order from smallest to biggest.



Start here

1. Colour the 11th face green.
2. Colour the 18th face red.
3. Draw a sad face on the 25th face.
4. Draw a hat on the 30th face.
5. Draw a smile on the 31st face.
6. Draw earrings on the 22nd face.
7. Draw glasses on the 23rd face.
8. Colour the 19th face orange.
9. Draw a cat next to the 20th face.
10. Draw an apple on top of the 21st face.

Date: _____ Place value

Let's break numbers up

195	$100 + 90 + 5$	one hundred + 9 tens + 5 units	one hundred and ninety-five
248			
460			
371			
406			

Choose three of your own numbers.

Use your number building cards to find the value of the underlined digit in these numbers: (hundreds, tens or units)

452 _____
 325 _____
 273 _____

130 _____
 245 _____
 309 _____

Complete the following:

1. $364 = 300 + 60 + 4$

2. $180 = 100 + \underline{\hspace{2cm}}$

3. $400 + 20 + 8 = \underline{\hspace{2cm}}$

4. $306 = 300 + \underline{\hspace{2cm}}$

5. $292 = 200 + 90 + \underline{\hspace{2cm}}$

6. $400 + 70 + 5 = \underline{\hspace{2cm}}$

$$7. 222 = \underline{\hspace{2cm}} + 20 + 2$$

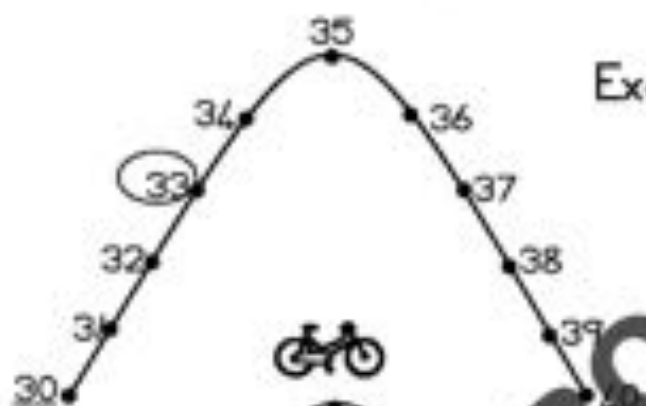
$$8. 465 = 400 + \underline{\hspace{2cm}} + 5$$

$$9. 199 = \underline{\hspace{2cm}} + 90 + 9$$

$$10. 278 = 200 + \underline{\hspace{2cm}} + 8$$

Date: * Rounding off *

(If a number is half way between 2 tens, we go to the next 10)



Example: Is 33 closer to 30 or 40?

30

Fill in the numbers on the number line.

1. Is 86 closer to 80 or 90?



Fill in the numbers on the number line.

2. Is 54 closer to 50 or 60?



Fill in the numbers on the number line.

3. Is 45 closer to 40 or 50?





Fill in the numbers on the number line.

1. Is 65 closer to 60 or 70? _____



Fill in the numbers on the number line.

2. Is 97 closer to 90 or 100? _____



Fill in the numbers on the number line.

3. Is 22 closer to 20 or 30? _____



Fill in the numbers on the number line.

2. Is 67 closer to 60 or 70? _____



Fill in the numbers on the number line.

3. Is 87 closer to 80 or 90? _____

Date: _____

Problem solving - Addition and Subtraction

Sipho has 325 marbles. If Zora gives him 36 marbles she will have the same number as Sipho.

1. How many marbles do they each have? _____

2. How many marbles did Zora have to start with? _____

3. How many marbles do they have altogether? _____

Date: _____ Repeated Addition

1. At the garage 8 buses need new tyres. If each bus needs 6 tyres and a spare tyre, how many new tyres will there be? _____



2. The pool is 10 metres long and Kemeesha swims 6 laps. ⁵⁷
How far did she swim? _____



3. Each month Lebo reads 5 books. How many books will she read in a year? _____

4. A farmer has 15 cows on his farm. If each cow provides 5 litres of milk how much milk will there be altogether? _____




5. How many sides are there if we have 20 triangles? _____

6. There are 9 rows of fruit trees with 7 trees in each row. How many fruit trees are there altogether? _____



7. If 9 rows in a vegetable garden have the same number of plants and there are 45 plants altogether, how many plants in each row? _____

8. Alan has 18 birds. He has 3 times as many birds as Dylan does. How many birds does Dylan have? _____



9. Sue has 16 sweets. This is four times as many as Pam has. How many sweets does Pam have? _____



Date: _____ Problem Solving

1. Robert sells packets with 9 apples in each packet. He has 45 apples. How many packets can he fill? _____



2. Lawrence has 69 sweets. Each day he eats 3 sweets. How many days will the sweets last? _____



3. There are 24 children going on a school outing. How many taxi's are needed if each taxi can take 8 children? _____

4. Wimpy's dad has 57 socks. How many pairs of socks does he have? _____



5. There are 75 children. How many teams of 4 children can be made? _____

--

6. For Dad to fill the baby pool which holds 70 litres of water, how many buckets will he need to use, if each bucket holds 10 litres? _____

--



Date: _____ Fractions

1. Colour in 1 half red $\frac{1}{2}$, 2 thirds blue $\frac{2}{3}$, 2 quarters orange $\frac{2}{4}$, 3 fifths green $\frac{3}{5}$ and 5 eighths purple $\frac{5}{8}$.

2. You have a chocolate bar - would you get more from:

2 thirds or 5 eighths?

1 half or 2 quarters?



3. How many halves are equal to a whole? _____

4. How many quarters are equal to a whole? _____

5. How many quarters are there in 1 half? _____

6. How many thirds are equal to a whole? _____

7. How many eighths are there in 2 quarters? _____

Date: _____ Sharing and grouping

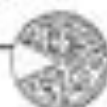
1. If 4 friends share 8 chocolate bars equally, what quantity will each friend get? _____



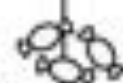
2. If 4 friends share a watermelon equally, what fraction does each friend get? _____



3. A pizza is cut into 20 equal slices. Three friends are sharing the pizza. How many slices does each friend get?



4. Terry has 15 sweets in her bag. If she keeps $\frac{1}{3}$ of her sweets and gives the rest to her friends, how many sweets did she give to her friends?



5. Nathan has R75 and shares it equally amongst 5 friends. How much money does each friend get?

6. Kelly gives $\frac{1}{4}$ of her 20 sweets to her best friend. How many sweets does her best friend get?



7. Sean wants to save half of the R30 he is given as a birthday present. How much money will he save?

8. A cake is cut into 8 slices and Peter eats two slices of the cake. What fraction of the cake does he eat?





1. Amy has a R1 coin, four 20c coins and a 10c coin. Her sweets cost 50c each. How many can she get?



2. Jack has two R2 coins, three 50c coins and three 20c coins. If he has to pay R5,50 at the shop, how much change will he get?

3. Magda has R8,50 and Gift has R11,20. How much more money does Gift have than Magda?

4. 6 friends want to buy ice-creams for R11,50 each. How much will it cost them to buy one ice-cream each?

5. Pete has R5. Check the prices of the sweets and circle which 3 he can buy. Show your working out.



6. Circle which is cheaper:

A: 3 books costing R2,50 each

or

B: 2 books costing R1,20 each



A: 2 sweets costing R1,50 each

or

B: 4 sweets costing R1,20 each



7. You have R50. Draw what things you would like to buy for under R50 and show the prices.



Date: _____ Addition

Example: $126 + 241 =$

$100 + 200 = 300$
$20 + 40 = 60$
$6 + 1 = 7$
$= 367$



1. $162 + 213 =$ _____

2. $350 + 28 =$ _____

3. $91 + 309 =$ _____

4. $276 + 113 =$ _____



5. $133 + 124 =$ _____

6. $71 + 118 =$ _____

7. $223 + 136 =$ _____

8. $314 + 82 =$ _____

9. $123 + 231 =$ _____

10. $195 + 195 =$ _____



Date: _____

Subtraction

Example: $389 - 137 = \underline{252}$

$300 - 100 = 200$

$80 - 30 = 50$

$9 - 7 = 2$

$= 252$



1. $389 - 25 =$ _____

2. $365 - 214 =$ _____



3. $328 - 318 =$ _____

4. $297 - 143 =$ _____

5. $276 - 122 =$ _____

6. $194 - 23 =$ _____



7. $356 - 15 =$ _____

8. $190 - 140 =$ _____

9. $253 - 213 =$ _____

10. $400 - 150 =$ _____



Date: _____ Mixed sums

1. $40 + 70 =$ _____

2. $70 + 80 =$ _____

3. $120 - 30 =$ _____

4. $150 - 60 =$ _____

5. $65 + 10 =$ _____

6. $124 + 10 =$ _____

7. $326 - 10 =$ _____

8. $358 - 10 =$ _____

8. $234 + 5 =$ _____

9. $475 +$ _____ $= 479$

10. $768 - 4 =$ _____

11. $679 - 8 =$ _____

12. $200 + 9 =$ _____

13. $300 - 3 =$ _____

14. $300 - 6 =$ _____

15. $400 - 5 =$ _____

16. $100 + 100 =$ _____

17. $100 + 200 =$ _____

Check to see if these answers are true:

IF $236 + 18 = 254$ then $254 - 18 = 236$

IF $384 - 48 = 336$ then $336 + 48 = 384$



Date: _____ Number bonds to 30



Date: _____

Write two addition and two multiplication number sentences for these arrays. Example:



$3+3=6$

$2+2+2=6$

$2 \times 3 = 6$

$3 \times 2 = 6$



Fill in the missing answers by multiplying the numbers.

X	2	3	4	5	6	7	8	9	10
1									
2	4								
3									
4									
5									

Date: _____ Division

Example: The teacher has 10 crayons which she divides equally between 2 tins. How many crayons will be in each tin?



5

5

$$10 \div 2 = 5$$

Show the number sentence and answers for the following sums:

1. Pam has 8 stickers which she divides equally amongst her 4 friends. How many stickers does each friend get?

2. Mom bought 12 apples and divided them equally into 2 bags. How many apples will there be in each bag?

3. Granny has 6 cupcakes which she divides equally amongst her 3 grandchildren. How many cupcakes does each child get?



4. Nella divided 16 spoons of ice-cream equally onto 8 plates. How many spoons of ice-cream were in each plate?

5. The pet shop owner has 20 fish. He divides the fish up amongst 5 tanks. How many fish are there in each tank?



Date: _____ Patterns, Functions and Algebra

Complete the following patterns.



Colour the shape that would come next.





1

2

Date: _____ Extend Number Sequences

Fill in the missing numbers

500, 550, 600, _____, 750, _____

100, 200, _____, 600, _____

500, 450, 400, _____, 100

60, 80, 100, _____, 220

470, _____, 450, _____, 400, _____

243, _____, 263, _____, 293, _____, 313

468, _____, 428, _____, 388, _____, 328

Date: _____ Space and Shape: Geometry

1. Identify these objects.



2. Colour the objects which have a flat surface red and objects which have a curved surface blue.



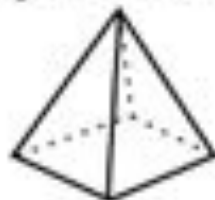
3. Draw a rectangle, square, triangle and circle in the correct boxes

Curved Surface

Flat surface



4. The ancient Egyptians started building pyramids nearly 3000 years ago.



- a) How many triangular sides does an Egyptian pyramid have? _____
 b) What shape is the base of the pyramid? _____



- a) Where have you seen a cone shape? _____
 b) What shape is the base of the cone? _____

Match the times on the digital clock with the same time on the analogue clock.



06:30



07:45



03:00



06:45



12:00



01:15



09:15

Write the digital times for the following questions.

1. What time do you wake up in the morning?

2. What time do you leave for school in the morning?

3. What time does school start?



4. What time is first break?

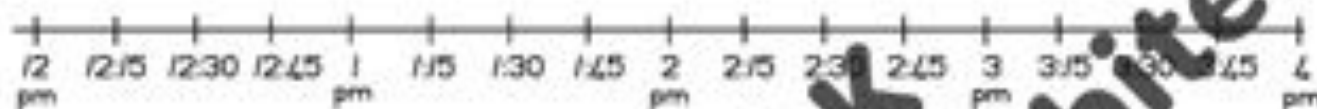


5. What time does school end?

6. What time do you go to bed?



Use the numberline to work out these answers.



1. If Tumi leaves school at 1:15pm and reaches home at 02:00pm, how many minutes does it take him to get home?

2. If Sam needs to be at swimming lessons at 3pm and it takes him 45 minutes to walk there, what time must he leave home? _____
3. Lara is allowed to play for 1 and a half hours with her friend. If they start playing at 12:15, what time must she leave to come home? _____

Date: _____ Measurement: Length

1. Using a small object (your sharpener, small piece of string, block, etc) discover which garden hose is the longest and colour it green.

Estimate: _____ Measure: _____



2. Estimate, then measure with a metre stick or metre long piece of string.

Length of a
teacher's car.



Estimate: _____

Length: _____

Length of the
playground

Length of the
corridor.

Estimate: _____

Length: _____

Estimate: _____

Length: _____

Length from your
classroom to the
classroom next
door.

Length of the
school gate.

Estimate: _____

Length: _____

Estimate: _____

Length: _____

Length of the
staffroom

Length of the
classroom door.

Estimate: _____

Length: _____

Estimate: _____

Length: _____

Length of the
classroom carpet


Estimate: _____

Length: _____




Months of the year

December	
November	
October	
September	
August	
July	
June	
May	
April	
March	
February	
January	

Key:  = 1 child

Number of children

Find out which months of the year all the children in the class have their birthdays. Record the data using a  for each child.

1. In which month of the year are the most birthdays?

2. In which month of the year are the least birthdays?

3. How many other children are born in the same month as you? _____