

MATHEMATICS MEMO– TERM 4

NUMBERS, OPERATIONS AND RELATIONSHIPS

1. Fill in > < or =

$24 < 70 + 2$

$\text{double } 14 = 28$

$50 + 50 > 50$

$75 - 5 = 70$

2. Break up:

$11 = 10 + 1$

$28 = 20 + 8$

$57 = 50 + 7$

$73 = 70 + 3$

$124 = 100 + 20 + 4$

3. Place Value (Hundreds, Tens and Units):

$71 = 7 \text{ T} + 1 \text{ U}$

$6 \text{ T} + 3 \text{ U} = 63$

$6 \text{ U} + 5 \text{ T} = 56$

$44 = 4 \text{ T} + 4 \text{ U}$

4. Value (how much is it worth?):

Number	Value of the underlined digit
Eg. <u>2</u> 9	20
<u>4</u> 2	40
3 <u>8</u>	8

5. Decomposition

$\text{Eg. } 22 + 46 = 68$

$= (20 + 2) + (40 + 6)$

$= (20 + 40) + (2 + 6)$

$= 60 + 8$

$= 68$

$\text{Eg. } 98 - 43 = 55$

$= (90 + 8) - (40 + 3)$

$(\text{Change of sign}) = (90 - 40) + (8 - 3)$

$= 50 + 5$

$= 55$

$$\begin{aligned}
24 + 62 &= 86 \\
&= (20 + 4) + (60 + 2) \\
&= (20 + 60) + (4 + 2) \\
&= 80 + 6 \\
&= 86
\end{aligned}$$

$$\begin{aligned}
94 - 23 &= 71 \\
&= (90 + 4) - (20 + 3) \\
&= (90 - 20) + (4 - 3) \\
&= 70 + 1 \\
&= 71
\end{aligned}$$

$$\begin{aligned}
13 + 45 &= 58 \\
&= (10 + 3) + (40 + 5) \\
&= (10 + 40) + (3 + 5) \\
&= 50 + 8 \\
&= 58
\end{aligned}$$

$$\begin{aligned}
79 - 44 &= 35 \\
&= (70 + 9) - (40 + 4) \\
&= (70 - 40) + (9 - 4) \\
&= 30 + 5 \\
&= 35
\end{aligned}$$

6. Multiplication

$$7 \times 3 = 21$$

$$6 \times 4 = 24$$

$$5 \times 5 = 25$$

$$8 \times 2 = 16$$

$$9 \times 2 = 18$$

$$7 \times 5 = 35$$

$$10 \times 3 = 30$$

$$4 \times 5 = 20$$

7. Doubling and Halving:

$$\text{Double } 9 = 18$$

$$\text{Half of } 16 = 8$$

$$\text{Double } 7 = 14$$

$$\text{Half of } 18 = 9$$

$$\text{Double } 10 = 20$$

$$\text{Half of } 12 = 6$$

$$\text{Double } 46 = 92$$

$$\text{Double } 34 = 68$$

$$\text{Double } 40 = 80$$

$$\text{Double } 30 = 60$$

$$\text{Double } 6 = 12$$

$$\text{Double } 4 = 8$$

$$80 + 12 = 92$$

$$60 + 8 = 68$$

$$\text{Half of } 39 = 19 \frac{1}{2}$$

$$\text{Half of } 86 = 43$$

$$\text{Half of } 30 = 15$$

$$\text{Half of } 80 = 40$$

$$\text{Half of } 9 = 4 \frac{1}{2}$$

$$\text{Half of } 6 = 3$$

$$15 + 4 \frac{1}{2} = 19 \frac{1}{2}$$

$$40 + 3 = 43$$

8. Problem Solving:

There were 44 books in Grade 2 ZK and 32 books in Grade 2 RP. However, 15 books went missing. How many books are left?

Sum: $44 + 32 = 76$

Story: **There are 61 books left.**

I have 7 sweets and my friend Sam has double the number that I have. How many sweets does Sam have?

Sum: $7 + 7 = 14$ or $7 \times 2 = 14$

Story: **Sam has 14 sweets.**

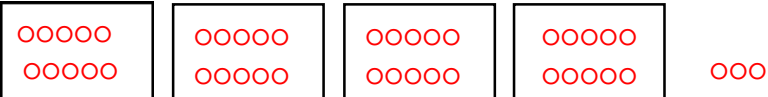
A basket has 4 apples. How many apples do 9 baskets have?

+ Sum: $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36$

x Sum: $9 \times 4 = 36$ or $4 \times 9 = 36$

Story: **9 baskets have 36 apples.**

Share 43 cupcakes amongst 4 boxes. How many will each box have and how many are left over?

Draw:  Draw:

○○○○○	○○○○○	○○○○○	○○○○○
○○○○○	○○○○○	○○○○○	○○○○○

 ○○○

Each box will have **10** and **3** are left over.

I bought a t-shirt for R70. I paid with a R100 note. How much change will I get?

Sum: $R100 - R70 = R30$

Story: **I will get R30 change.**

At school I bought a pie for R12.00, a can of cool drink for R15.00 and a chocolate for R5.50. How much money did I spend at the tuck-shop?

Sum: $R12.00 + R15.00 + R5.50 = R32.50$

Story: **I spent R32.50 at the tuck-shop.**

PATTERNS

Complete the number patterns below:

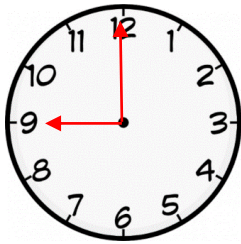
145	150	155	160	165	170
180	170	160	150	140	130
68	72	76	80	84	88
98	100	102	104	106	108
57	60	63	66	69	72
151	153	155	157	159	161

Draw the picture that comes next in each pattern.

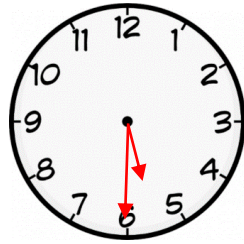


MEASUREMENT

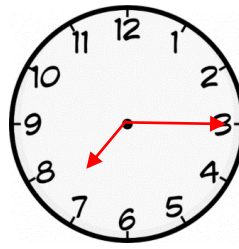
Time: Draw hands on the clocks below.



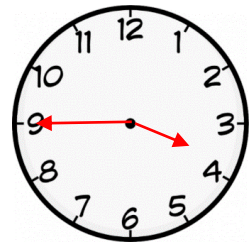
9 o' clock



half past 5



quarter past 7



quarter to 4

How many hours are there in a day? **24 hours**

How many minutes are there in an hour? **60 minutes**

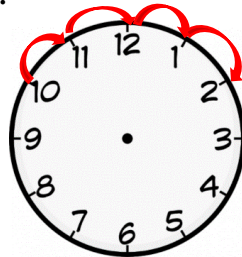
How many days are there in a week? **7 days**

How many days are there in a year? **365 days**

How many months are there in a year? **12 months**

Mum goes shopping at 10 o'clock in the morning and comes home at 2 o'clock in the afternoon. For how many hours did she go shopping? **4 hours**

Use the clock below to help you.



Calculate the time:

4 o'clock + 3 hours = **7 o' clock**

2 o'clock + 5 hours = **7 o' clock**

6 o'clock + 4 hours = **10 o' clock**

Calendar time:

AUGUST 2019						
S	M	T	W	T	F	S
		1	2	3	4	5
	7	8	9	10	11	12
	14	15	16	17	18	19
	21	22	23	24	25	26
	28	29	30	31		

1. What month of the year does this calendar show? **August**
2. How many days are there in this month? **31**
3. What **day of the week** is the 24th of August? **Thursday**
4. Thabo's birthday is 2 days after the 21st of August. **On what date** is his birthday?
23 August
5. How many full weeks are there in this month? **3**
6. Colour all the Sundays red.

Mass:

Colour the correct answers. The standard units of measuring mass are:

litres	centimetres	kilograms	grams
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1 kilogram = **1000** grams

Arrange the following from heaviest to lightest: **250g** **2kg** **400g** **500g** **50g**

2kg **500g** **400g** **250g** **50g**

Arrange the following from lightest to heaviest: **5kg** **200g** **90g** **1kg** **10kg**

90g **200g** **1kg** **5kg** **10kg**

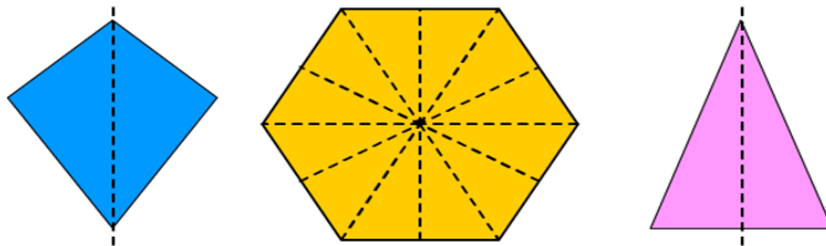
SPACE AND SHAPE

symmetry

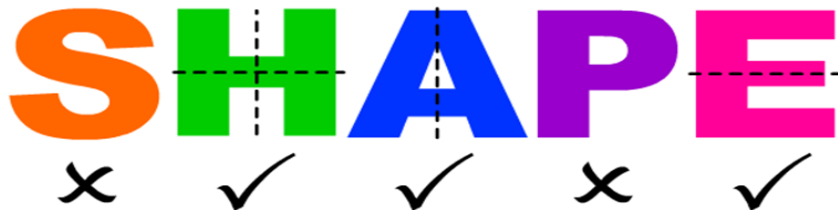
Symmetry is having one side that exactly mirrors the other.



A line of symmetry divides a symmetrical shape in half.



An object may have more than one line of symmetry.



Tell whether the dotted line on each shape is a line of symmetry or not:

