END OF PRIMARY BENCHMARK

MATHEMATICS
WRITTEN PAPER

80 Marks

1 hour 15 minutes

MATHEMATICS
WRITTEN PAPER

1.   Work out:

a) $144 + 56 =$ _____	b) $1638 - 438 =$ _____
c) $100 \times \underline{\quad} = 7800$ _____	d) $636 \div 6 =$ _____

_____

2. a) Use a **ruler** to **measure** this line to the **nearest cm**.

The line is _____ cm long.

b) **Circle** the **most suitable measurement.**

i) The **weight** of a 10 year old boy.

25 kg   60 g   500 g
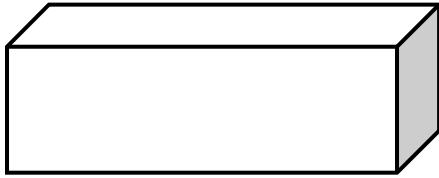
ii) The **height** of a tree.

2 mm   15 cm   3 m

c) **Round** 31,710 kg to the **nearest 1000kg.**

_____

3. Put a **tick** (√) near the **correct** statements.

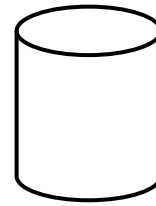Choose **two** correct statements for **each** shape.

a)

Cuboid

The cuboid is a flat shape. ☐

The cuboid has 6 faces. ☐

The cuboid has 12 edges. ☐

All the edges are equal. ☐

b)

Cylinder

The cylinder is a flat shape. ☐

The cylinder has 4 faces. ☐

It has 2 circular edges. ☐

This shape has no vertices. ☐

4.

| $4\frac{1}{4}$ km | | 41.9km | | 42.5km | | 0.09km |

Choose one card for **each** of the following statements:

a) The **longest** distance. ☐

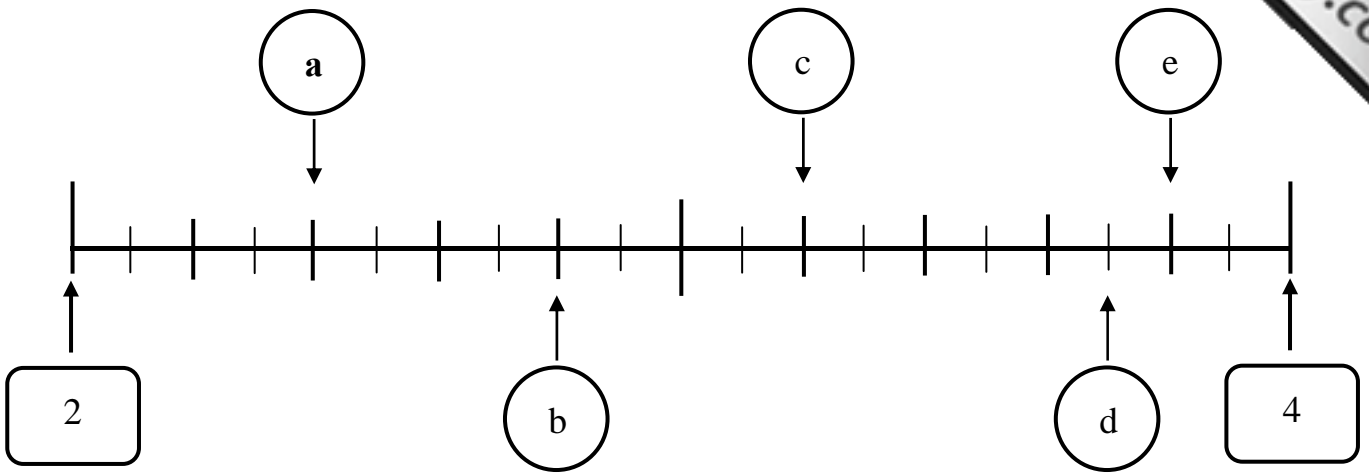b) The distance which is **shorter than 1km**. ☐

c) The distance which **is equal** to **4250m**. ☐

d) The distance which is **closest** to **42km**. ☐

5. a) Write down the **number** shown by **each arrow** on the number line

   (Hint: The first one is done for you).

| a | | c | | e |

2

b

d   4

| **a = 2·4** | b = _____ | c = _____ | d = _____ | e = _____ |

b) **Mark 3·4** with an arrow on the same number line.

_____

6. The **three** numbers in **each row or column add up to 150**.

   Fill in the missing numbers.

```
                          [   ]
                            |
   [40]——[   ]——[100]
              |
           [   ]——[20]——[50]
              |
[   ]——[70]——[   ]
```
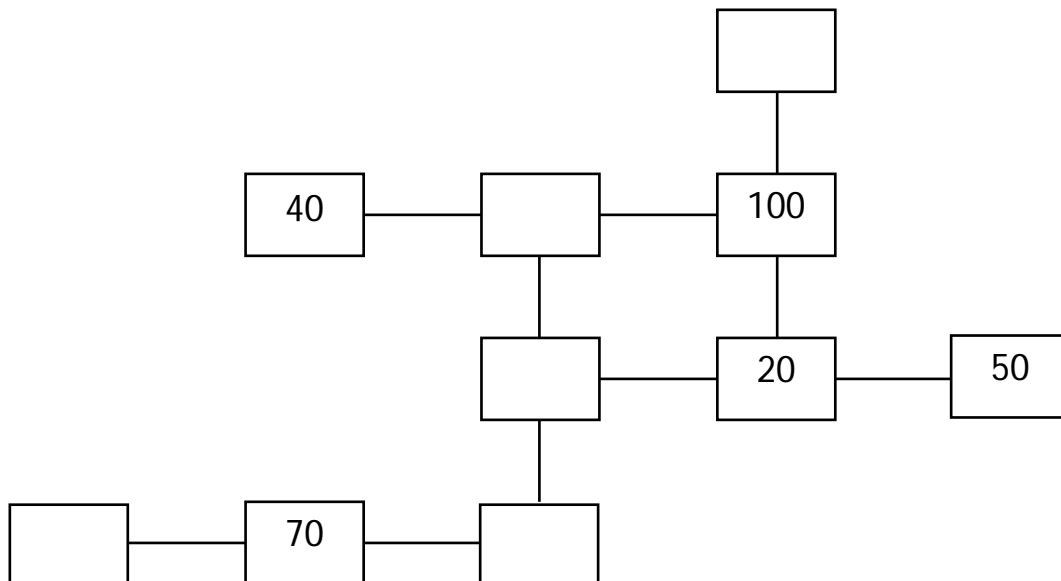
7. Each cereal box is of the **same** weight.
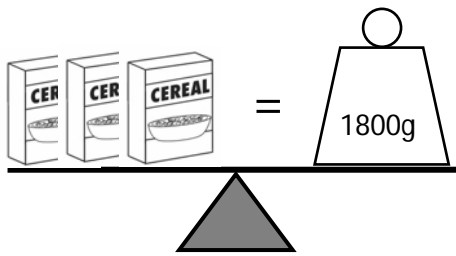
a) What is the weight of **each** cereal box?

_____ g

b) Spotty the puppy weighed $\frac{3}{4}$ kg when it was born.

i) Express $\frac{3}{4}$ kg in **grams**.

_____ g

ii) Spotty **gained 350g** of weight **each** month.

Work out Spotty's weight after **5 months**.

_____ g

_____

8. What number am I?

| I am **ONE** of these numbers:

18, 20, 32, 35, 40, 42, 46, 49, 64 |

I am an **EVEN** number.

I am **EXACTLY DIVISIBLE** by **5**.

8 is one of my **FACTORS.**

I am **NOT** a **SQUARE** number.

I am number _____

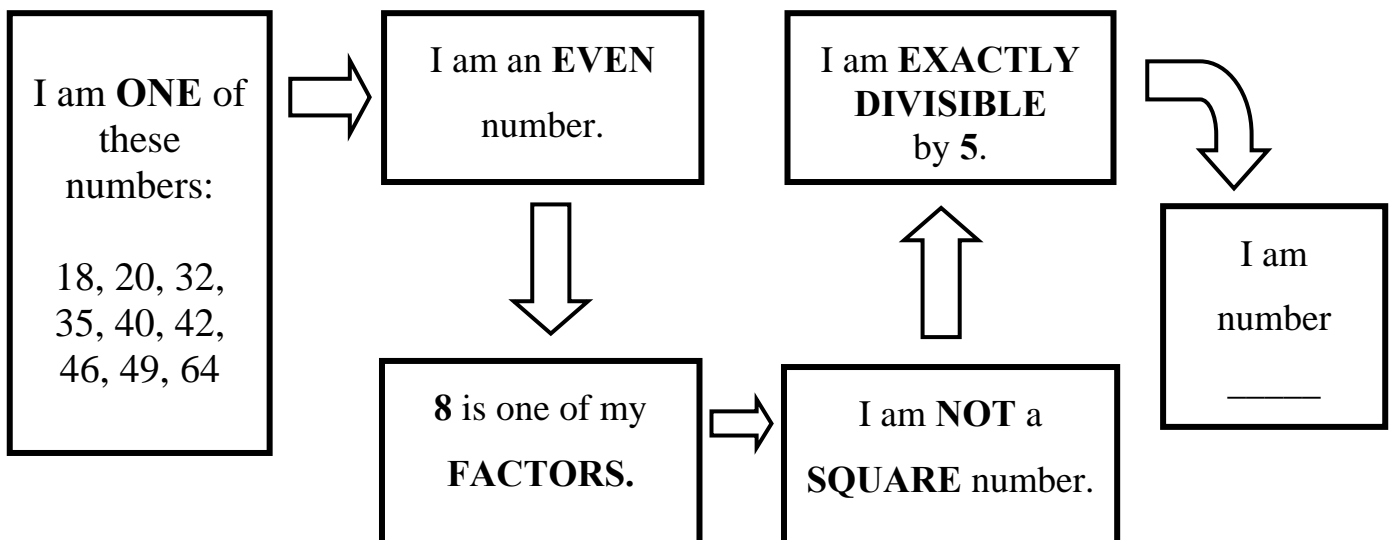9. Look at these **calculations**.

| **8 × 6** | | **24 ÷ 8** | | **double 24** |

| **half of 24** | | **24 + 8** |

Choose from the above the **correct calculation** to solve each problem.

a) Tom has 8 stickers. Sara has 24 stickers **more** than Tom.

How many **stickers** does **Sara have**?

b) Jim puts 24 stamps in an album. **8 stamps** fit on **each** page.

How many **pages** does **he use**?

c) Mum **divides equally** 24 toffees in two jars.

How many toffees does she put in **one** jar?

d) Which **two** calculations **give 48**?

=   48

=   48

10. In a theatre, **25 people** can sit in **one row**.

a) The theatre has **825 booked tickets**.

   How many **rows** are **booked**?

_____ rows

b) **Estimate, to the nearest thousand,** how many **people** can sit in **39 rows.**

_____ people

_____

11. This is **an incomplete** calendar for the month of **February 2011**.

a) **Complete** the calendar for
   the month of February.

b) Nick goes to the football
   nursery every **Saturday**.

   In February he went _____
   times.

February 2011						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26

c) Joan's birthday was on the **last Friday** of the month.

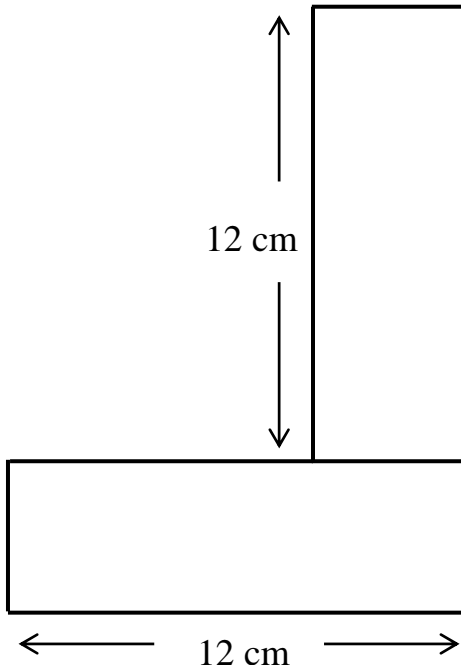   Nick's birthday was **8 days before** Joan's.

   Nick's birthday was on the _____of February.

12. a) Peter has two rectangles each measuring 12 cm by 3 cm.

   i) **Complete**.

     The **area** of one rectangle is _____cm².
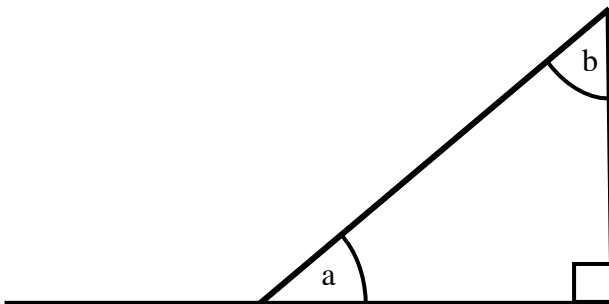

12 cm

12 cm

ii) He uses the two rectangles to make this shape.

Work out the **perimeter** of Peter's shape.

_____ cm

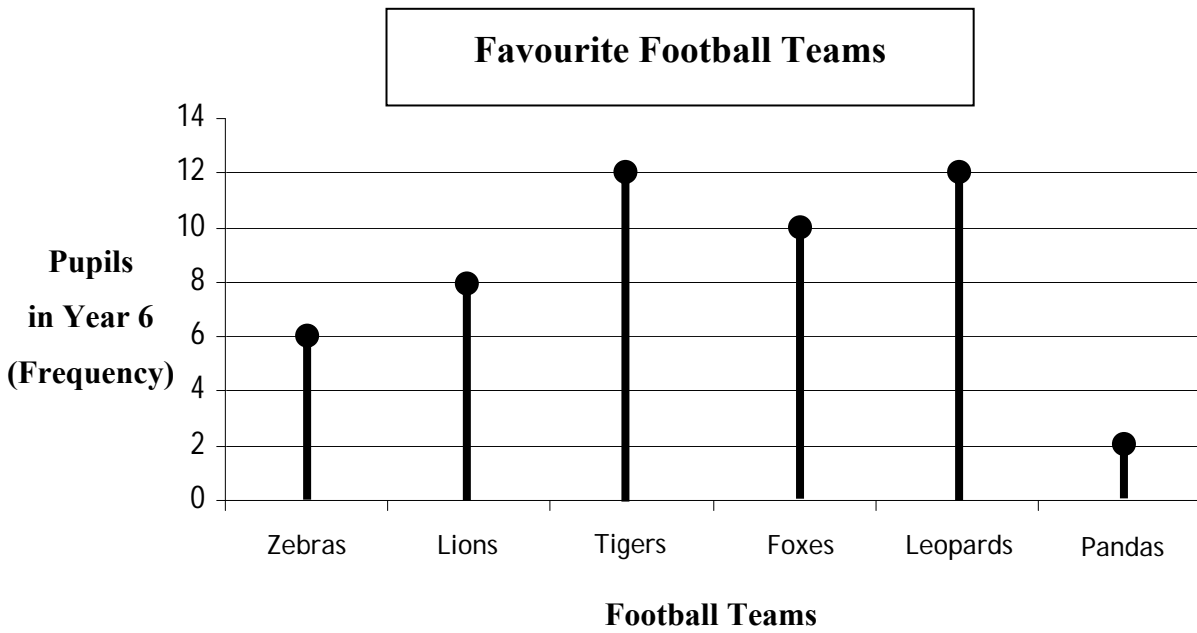b) This is a triangle drawn on a straight line.

b

a

i) Use a **protractor to measure** the size of **angle a.**

Angle a = _____ °

ii) **Work out** the size of **angle b**.

Angle b = _____ °

13. The graph shows the favourite football teams among pupils in Year 6.

Favourite Football Teams

Pupils in Year 6 (Frequency)

Team	Frequency
Zebras	6
Lions	8
Tigers	12
Foxes	10
Leopards	12
Pandas	2

Football Teams

a) How many **pupils side with Zebras**?

_____ pupils

b) How many **more pupils** prefer **Leopards to Lions**?

_____ pupils

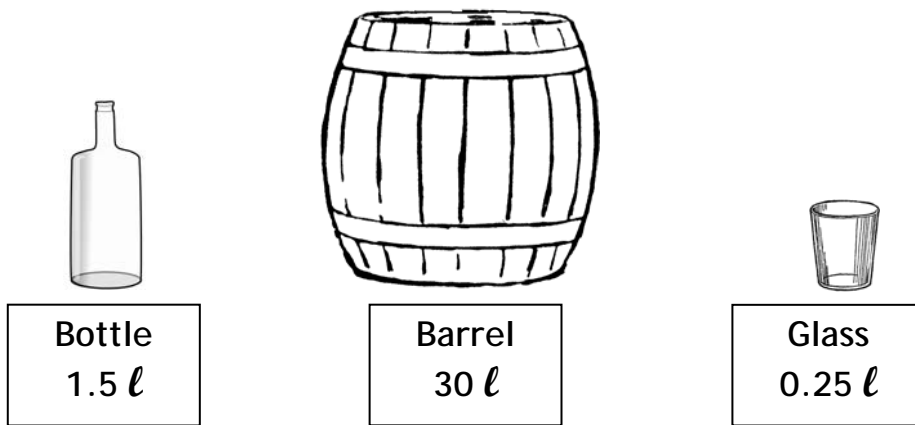c) How many **pupils** are there **altogether** in Year 6?

_____ pupils

d) **10%** of **all the pupils** also like volleyball.
How many **pupils** like **volleyball**?

_____ pupils

14. These pictures show the **capacity** of three different containers.

Bottle	Barrel	Glass
1.5 *ℓ*	30 *ℓ*	0.25 *ℓ*

a) **Express** the capacity of the **glass** as a **fraction of one litre,** in its simplest form.

_____

b) **Express** the capacity of the **bottle** in **millilitres** (*mℓ*).

_____ *mℓ*

c) Helen says that **2 bottles** are needed to **empty** the **barrel**.

Paul says that **20 bottles** are needed to **empty** the **barrel**.

i) Who is **right,** Helen or Paul?

_____

ii) Give a **reason** for your answer.

_____

_____

_____

15. Look at this timetable of flights and answer the questions below.

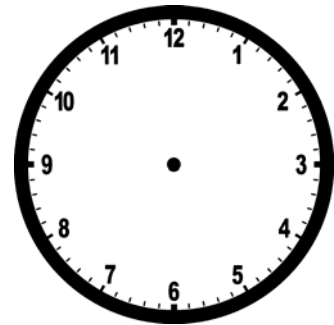|		Place	Time
Flight 1	Departure	Rome	11:00
	Arrival	Malta	12:25
Flight 2	Departure	Malta	12:45
	Arrival	Vienna	15:25
Flight 3	Departure	Vienna	
	Arrival	Milan	08:15

a) How **long** will it take to travel from **Rome to Malta**?

_____ h _____ min

b) **Flight 2**, from Malta to Vienna, lands at Vienna airport at **15:25**.

   i) **Mark** this time on the clock.

   ii) **Write 15:25** in a different way.

   _____ p.m.

c) The flight from **Vienna airport to Milan** is **1 hour 25 minutes** long.

   At what **time** does the plane **leave Vienna airport to Milan**?

   _____:_____

16. Joseph needs to buy a new mobile phone and wants to find the
    cheaper deal between Scheme A and Scheme B.

Scheme A charges **5c** for **every** text message.

Scheme B charges **10c** for each text message for the **first 100 messages.**
After that, **each** text message is charged 2c.

a) Joseph wants to send only **100 text messages** a month.
   Which scheme is **cheaper**, Scheme A or Scheme B?

   _____

b) Which **scheme** is **cheaper** for sending **300 messages** per month?

   _____

c) Joseph says that he gets **more** text messages for **€20** by using Scheme B.

   i) Is he correct?

   _____

   ii) **Explain** your answer.

   _____

   _____

   _____

   _____

END OF PAPER

Marking Scheme

Mental Paper	Nos.	1 - 20	20×1 mark	=	20 marks
Written Paper	Nos.	1 - 4	4×4 marks	=	16 marks
		5 - 12	8×5 marks	=	40 marks
		13 - 16	4×6 marks	=	24 marks
			TOTAL		100 marks