1. Work out:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) $144 + 56 =$</td>
<td></td>
<td>b) $1638 - 438 =$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) $100 \times ___ = 7800$</td>
<td></td>
<td>d) $636 \div 6 =$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. a) Use a ruler to measure this line to the nearest cm. The line is ______ cm long.

b) Circle the most suitable measurement.


<table>
<thead>
<tr>
<th>25 kg</th>
<th>60 g</th>
<th>500 g</th>
<th>2 mm</th>
<th>15 cm</th>
<th>3 m</th>
</tr>
</thead>
</table>

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. 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 below.
   (Hint: The first one is done for you).
   
   \[ a = 2 \cdot 4 \quad b = \quad c = \quad d = \quad e = \quad \]

   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.
7. Each cereal box is of the same weight.

![Cereal boxes on a scale]

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.

I am NOT a SQUARE number.

8 is one of my FACTORS.

I am number _______
9. Look at these calculations.

\[ 8 \times 6 \quad 24 \div 8 \quad \text{double } 24 \]

\[ \text{half of } 24 \quad 24 + 8 \]

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?

\[ \boxed{ } = 48 \]

\[ \boxed{ } = 48 \]
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.

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thur</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
</tr>
</tbody>
</table>

b) Nick goes to the football nursery every **Saturday**.
   In February he went _______ times.

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.

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

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

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

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

ii) **Work out** the size of **angle b**.
13. The graph shows the favourite football teams among pupils in Year 6.

Favourite Football Teams

<table>
<thead>
<tr>
<th>Football Teams</th>
<th>Pupils in Year 6 (Frequency)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zebras</td>
<td>6</td>
</tr>
<tr>
<td>Lions</td>
<td>8</td>
</tr>
<tr>
<td>Tigers</td>
<td>4</td>
</tr>
<tr>
<td>Foxes</td>
<td>10</td>
</tr>
<tr>
<td>Leopards</td>
<td>12</td>
</tr>
<tr>
<td>Pandas</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

![Diagram of containers]

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

\[
\text{Glass: } \frac{0.25}{1} = \frac{1}{4}
\]

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

\[
\text{Bottle: } 1.5 \times 1000 = 1500 \text{ ml}
\]

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?

\[
\text{Helen: } 2 \times 1.5 = 3 \text{ bottles}
\]

\[
\text{Paul: } 20 \times 1.5 = 30 \text{ bottles}
\]

ii) Give a reason for your answer.

\[
\text{Helen is correct because } 2 \times 1.5 = 3 < 20
\]

\[
\text{Paul is incorrect because he overestimated the capacity needed.}
\]
15. Look at this timetable of flights and answer the questions below.

<table>
<thead>
<tr>
<th>Flight</th>
<th>Place</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight 1</td>
<td>Departure</td>
<td>Rome</td>
</tr>
<tr>
<td></td>
<td>Arrival</td>
<td>Malta</td>
</tr>
<tr>
<td>Flight 2</td>
<td>Departure</td>
<td>Malta</td>
</tr>
<tr>
<td></td>
<td>Arrival</td>
<td>Vienna</td>
</tr>
<tr>
<td>Flight 3</td>
<td>Departure</td>
<td>Vienna</td>
</tr>
<tr>
<td></td>
<td>Arrival</td>
<td>Milan</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mental Paper Nos.</th>
<th>1 - 20</th>
<th>(20 \times 1) mark</th>
<th>=</th>
<th>20 marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Paper Nos.</td>
<td>1 - 4</td>
<td>(4 \times 4) marks</td>
<td>=</td>
<td>16 marks</td>
</tr>
<tr>
<td></td>
<td>5 - 12</td>
<td>(8 \times 5) marks</td>
<td>=</td>
<td>40 marks</td>
</tr>
<tr>
<td></td>
<td>13 - 16</td>
<td>(4 \times 6) marks</td>
<td>=</td>
<td>24 marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>