PRIMARY SCHOOLS ANNUAL EXAMINATIONS 2003
EDUCATIONAL ASSESSMENT UNIT - EDUCATION DIVISION

YEAR 6 **MATHEMATICS** TIME: 1h 30 min

Name: _____ Class: _____

1) $\begin{array}{r} 452 \\ +134 \\ \hline \\ \hline \end{array}$

2) $\begin{array}{r} 103 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$

3) $\begin{array}{r} 815 \\ -672 \\ \hline \\ \hline \end{array}$

4) $6\overline{)525}$

5) $\boxed{25 \times 10 = 250}$

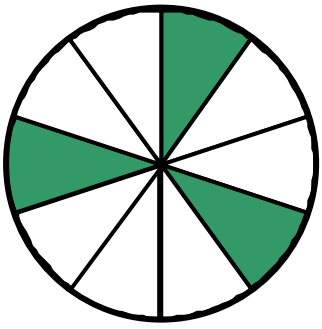
Complete:

a) $250 \div 10 =$ _____

b) $2{\cdot}5 \times 10 =$ _____

c) $25 \times 9 = 250 -$ ☐

6) Look at this circle.
What **part** of the whole circle is **shaded**?



Give your **answer** as a:

a) **fraction** = $\frac{\square}{\square}$

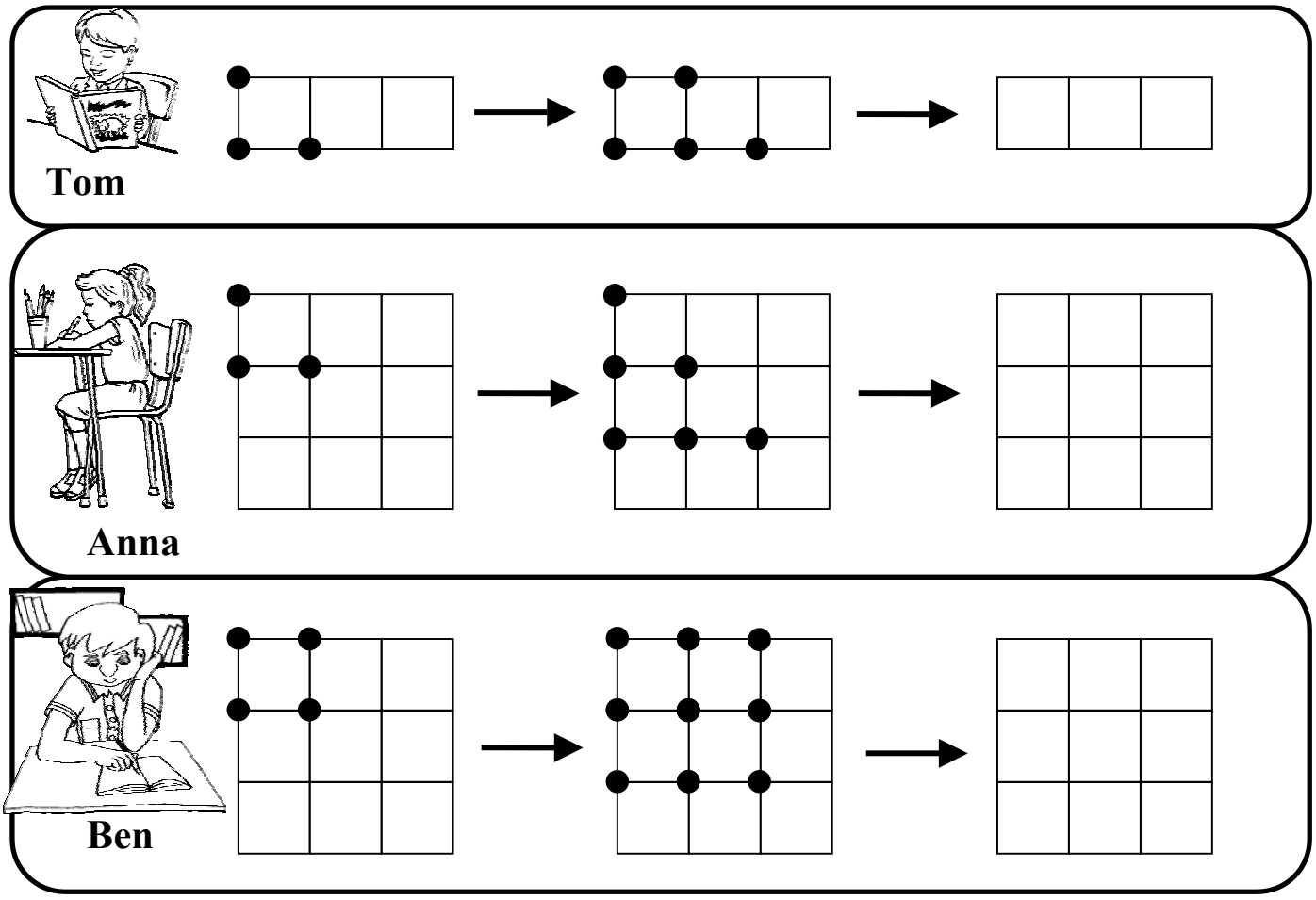
b) **decimal** = ____•____

c) **percentage** = _____%

7) Work out the **difference** between **3·5 cm** and **9 cm**.

_____

8) Tom, Anna and Ben make patterns with dots.
The pictures show the first two patterns each child makes.
Draw the next pattern in each picture.



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9) Choose the correct word to **fill in**.

millimetres	grams	millilitres	seconds
centimetres	kilograms	litres	minutes
metres			hours
kilometres			

a) A **bus trip** from **Valletta to Rabat** takes about **30** _____ .

b) A **desk** could be about **75** _____ **high**.

c) A **1 cent coin weighs** about **3** _____.

d) The **amount of water** in a **glass** could be about **200** _____.

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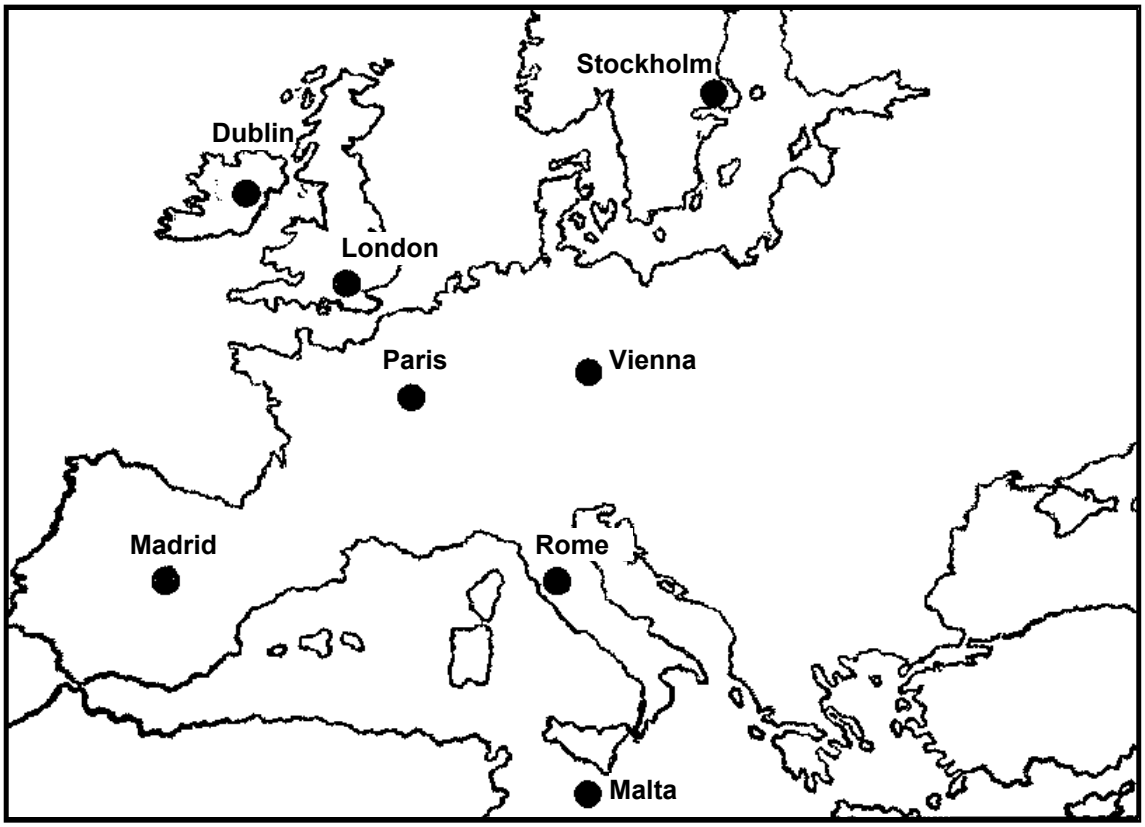
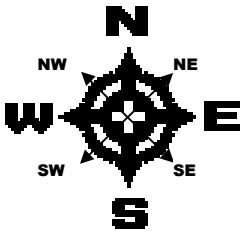
10) This map shows some cities.
Air Malta planes fly **to** and **from** these cities.





a) Fill in the **directions**.

i) A plane flies _____ to go **from** Malta to Vienna.

ii) A plane flies _____ to go to Paris **from** Stockholm.

b) Complete:

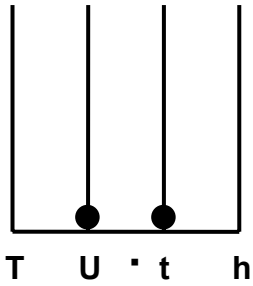
i) A plane leaves **Madrid**. It flies **East**. **To** which city is it flying?

_____

ii) A plane leaves **London**. It flies **North West**. **To** which city is it flying?

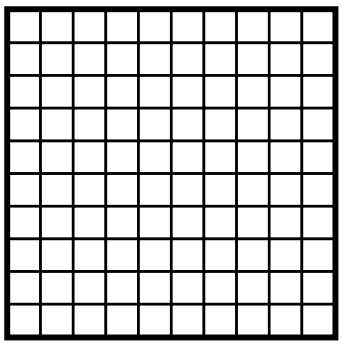
_____

11) a) Look at the abacus.
Write the number shown in **figures**.

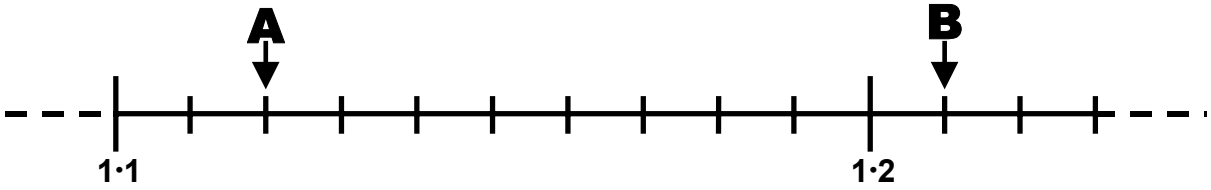


_____ .

b) **Shade 0·2** of this square.



c) **Write** down the **numbers** shown by the arrows at **A** and at **B**.



Arrow at **A** shows _____ Arrow at **B** shows _____

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12) Look at this table.
Fill in the **missing** weights. (The first one has been done for you.)

			
Weight of **empty** tin	**75g**		185g
Weight of **contents** only	**335g**	1kg 365g	
Weight of **tin** and **contents**	**410g**	1kg 500g	2kg 55g

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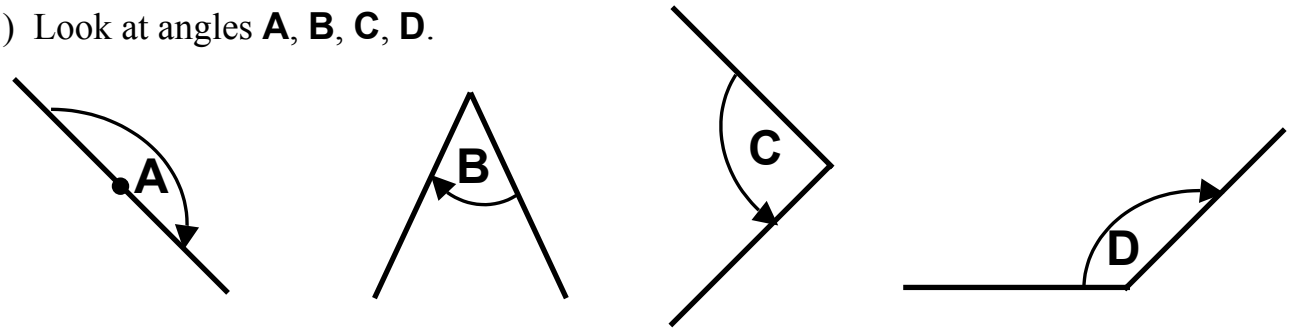
13) Look at angles **A**, **B**, **C**, **D**.

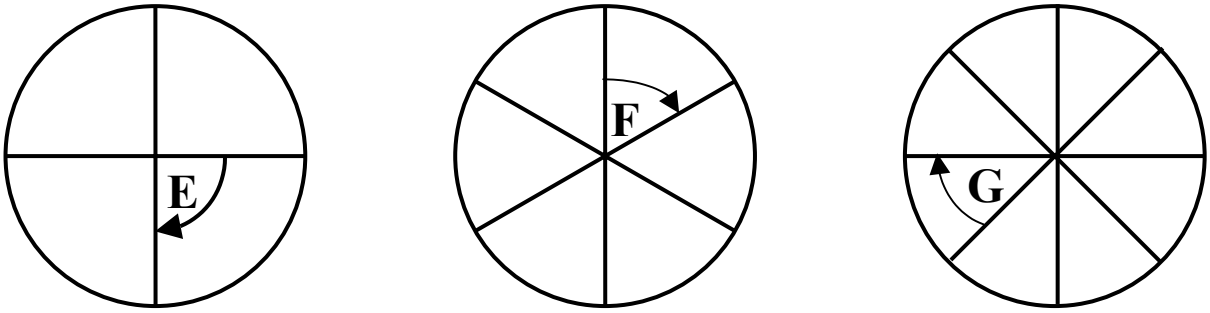


a) **Choose** the **correct words** for **each angle**.
The first one has been done for you.

a right	**an acute**	**an obtuse**	~~**a straight**~~

(i) **A** is ___**a straight**___ angle. (ii) **B** is _____ angle.
(iii) **C** is _____ angle. (iv) **D** is _____ angle.

b) Look at these circles. **Each** circle is divided into **equal parts**.



Write down, in degrees, the **size** of the marked angle in each circle.

Angle E = ____° Angle F = ____ ° Angle G = ____ °

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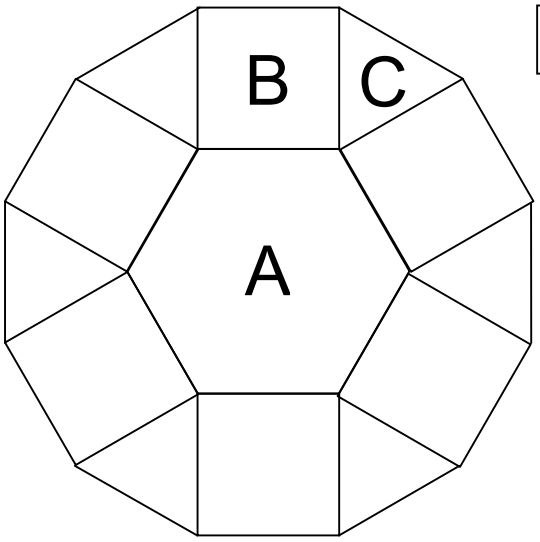
14)



To answer this question, do not use a ruler.

Look at this pattern.
It is made from 3 different flat shapes.

a) Shape A has **6 equal sides**.
Its **perimeter** is **12 cm**.
How **long** is **one** side of shape A?

_____ cm

b) Shape B is a **square**.
What is its **perimeter**?
_____ cm

c) Shape C has **3 equal sides**.
What is its **perimeter**?
_____ cm

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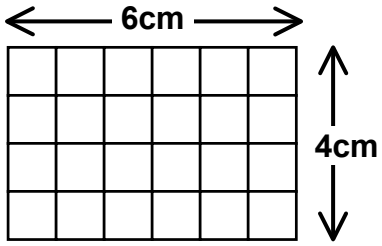
15) a) This is a rectangle. It is **6cm long** and **4cm wide**.



What is the **area** of this rectangle ?

_____ cm^2

b) A **second** rectangle is **half as long** and **twice as wide** as the **first** rectangle.

What is the **area** of the **second** rectangle? _____ cm^2

c) A **third** rectangle is **twice as long** and **half as wide** as the **first** rectangle.

What is the **area** of the **third** rectangle? _____ cm^2

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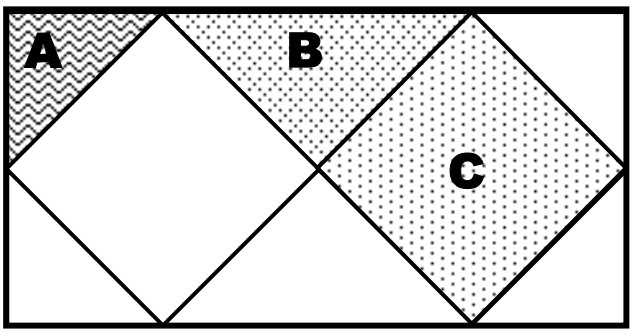
16) Look at this diagram. It is made from **whole** squares, **half** squares and **quarter** squares.



(a) What **fraction** is:

i) triangle **A** of triangle **B** ? $\frac{\square}{\square}$

ii) triangle **B** of square **C** ? $\frac{\square}{\square}$

iii) triangle **A** of square **C** ? $\frac{\square}{\square}$

(b) What **fraction** of the **rectangle** is:

i) triangle **A** ? $\frac{\square}{\square}$

ii) triangle **B** ? $\frac{\square}{\square}$

iii) square **C** ? $\frac{\square}{\square}$

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17) Anna goes shopping.
This was her bill.

a) **Fill in** the **missing** numbers.

3 kg onions at ☐ cents per kg = Lm 1 • 0 8

☐ ☐/☐ kg tomatoes at **50** cents per kg = Lm 0 • 7 5

Total = Lm 1 • 8 3

b) Anna pays her bill and has **Lm 3•17** left in her purse.
How much money had she **at first**?

Lm _____

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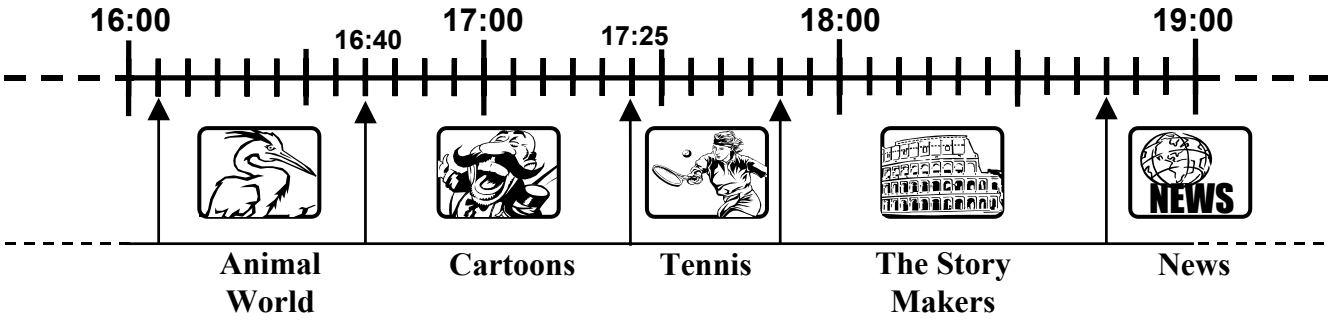
18) Look at this picture. It shows some **TV programmes** and a **time-line**.



a) The "**Cartoons**" programme **starts** at **16:40** and **ends** at **17:25**.
How long is the "**Cartoons"** programme?

_____ minutes

b) Which **two** programmes are **together 1 hour** long ?

_____; _____.

c) The **'News'** programme is **20 minutes** long.
At what **time** does it **end**? ____:____

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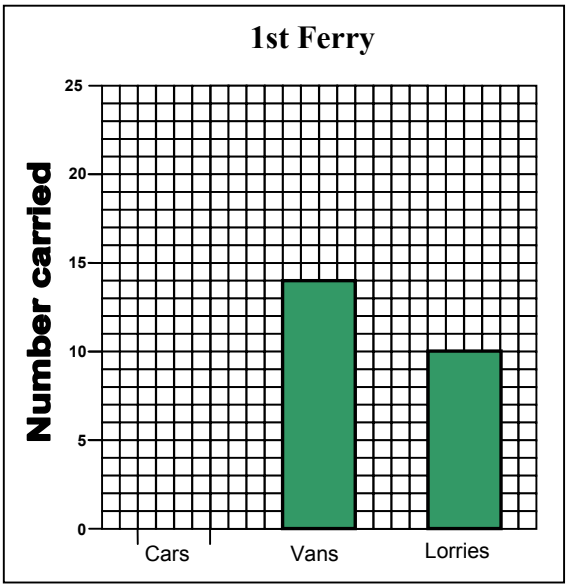
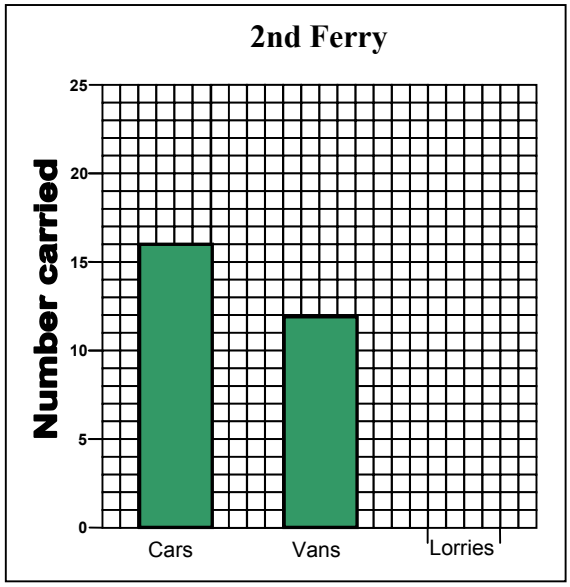
19) The **table** and the **graphs** show the **vehicles** carried by two Gozo Channel ferries.

Vehicles	**Cars**	**Vans**	**Lorries**
1st Ferry	19		10
2nd Ferry		12	8





a) **Complete:** i) the **table** by using the graphs.
ii) the **graphs** by using the table.

b) The ferry **fare** for one **lorry** and its **driver** is **Lm 11·75.**
What is the cost for all the lorries and their drivers on the **1st Ferry**?

Lm _____•_____

20) Tom's father is laying tiles in his new bathroom. He needs **477** tiles.

Tiles are bought in **whole** boxes **only**. **Each** box holds **15** tiles.

Complete to find out the **number of boxes** Tom's father needs.

$$\begin{array}{r} 477 \\ -150 \\ \hline 327 \end{array} \leftarrow 10 \times 15$$

Tom's father needs _____ **boxes**.

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21) Father's car tank can hold **30 litres** of petrol when **full** but it is only $^{1}/_{6}$ **full**.

a) How many litres of petrol does the tank **contain** ?

_____ litres

Father uses $^{2}/_{3}$ **litre** of petrol **every day** to drive to work.

b) How many litres of petrol does he use **in 5 days** ? $\square \frac{\square}{\square}$ litres

c) What **amount** of petrol is **left** in the tank **after 5 days**? $\square \frac{\square}{\square}$ litres

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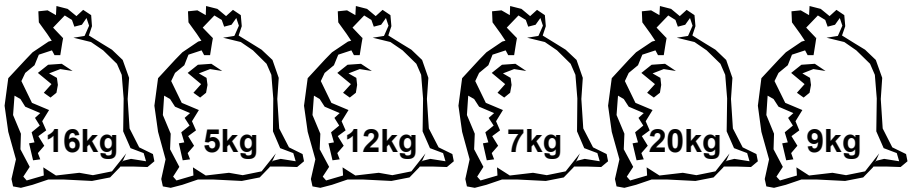
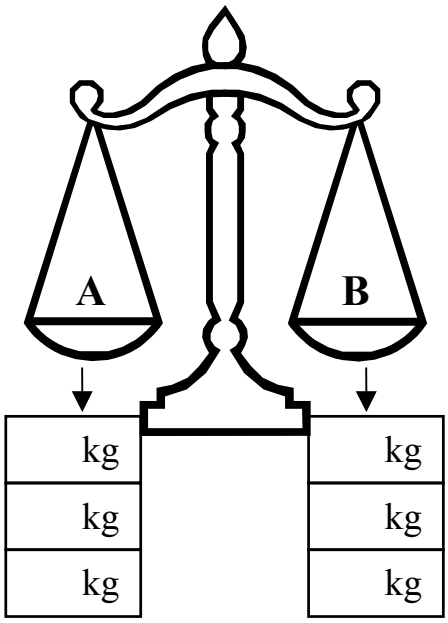
22) This picture shows the weights of 6 bags.



Tom puts **3 bags** on **pan A** and **3 bags** on **pan B** to make **pan A 1 kg heavier** than **pan B**.

Fill in the **weights** on **pan A** and **pan B.**



END OF PAPER

Marking Scheme:

Questions 1 - 8 (3 marks each)
Questions 9 - 12 (4 marks each)
Questions 13 - 22 (6 marks each)