Thursday 14th January

Mental Maths Starter

Choose a colour challenge to complete. Write the answers in your yellow book. Remember these questions should be done in your head.

(Orange challenge)

1. Draw the arrow after a half turn.

2. Which weighs the most?
8g + 7g   or   12g + 2g

3. If Jack is 12 and Jo is 4 years younger, how old is Jo?

4. Name a month that comes between January and April.

5. Divide 80 by 10.

6. Write an odd number between 34 and 40.

7. Poppy is 85cm tall. Last year she was 6cm shorter. How tall was she?

8. How many lots of 5 are there in 40?
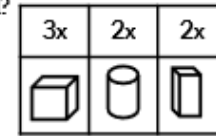
9. Count on in 5s.

65, 70, 75, ☐, ☐

10. Name a shape with less than 4 corners.

11. Write the time 11:15 in words.

12. Which number shows how many tens there are in 562?

(Green challenge)

1. How many faces are there in total?

3x	2x	2x

2. What is the total number of days in March and September?

3. A bag can hold 1.5kg. How many bags are needed to carry 6kg of potatoes?

4. How many times does 6 go into 54?

5. Is 5 a factor of 32?

6. 52 x 10 =

7. Find a tenth of 100.

8. Multiply seven by four and add six.

9. The perimeter of a triangle is 20cm. One side measures 8cm, one side measures 7cm. How long is the other side?

10. By how many pence is 42p greater than 36p?

11. Add four hundreds to 326.

12. Which number should I add to 124 to make 300?
126   176   134   112

13. What is 0.25 as a fraction?

14. 654 + ☐ = 682

15. How many fours are in 48?

(Purple challenge)

1. Total the vertices of a cube and a cone.

2. What is the value of x?
32 + x = 48

3. ½ of ☐ = 2.4

4. 600 + 300 + 200 =

5. The perimeter of a football pitch is 80m. Two sides are 30m, how long are the others?

6. Which number is 10 times more than 56?

7. I think of a number and square it. my answer is 36. What number am I thinking of?

8. ⅓ of my pocket money is £2.25. How much is my pocket money in total?

9. (15 − 3) x (3 + 2) =

10. Write an odd number between 4568 and 4572.

11. 25% of 160

12. What is the nearest whole number to 3.64?

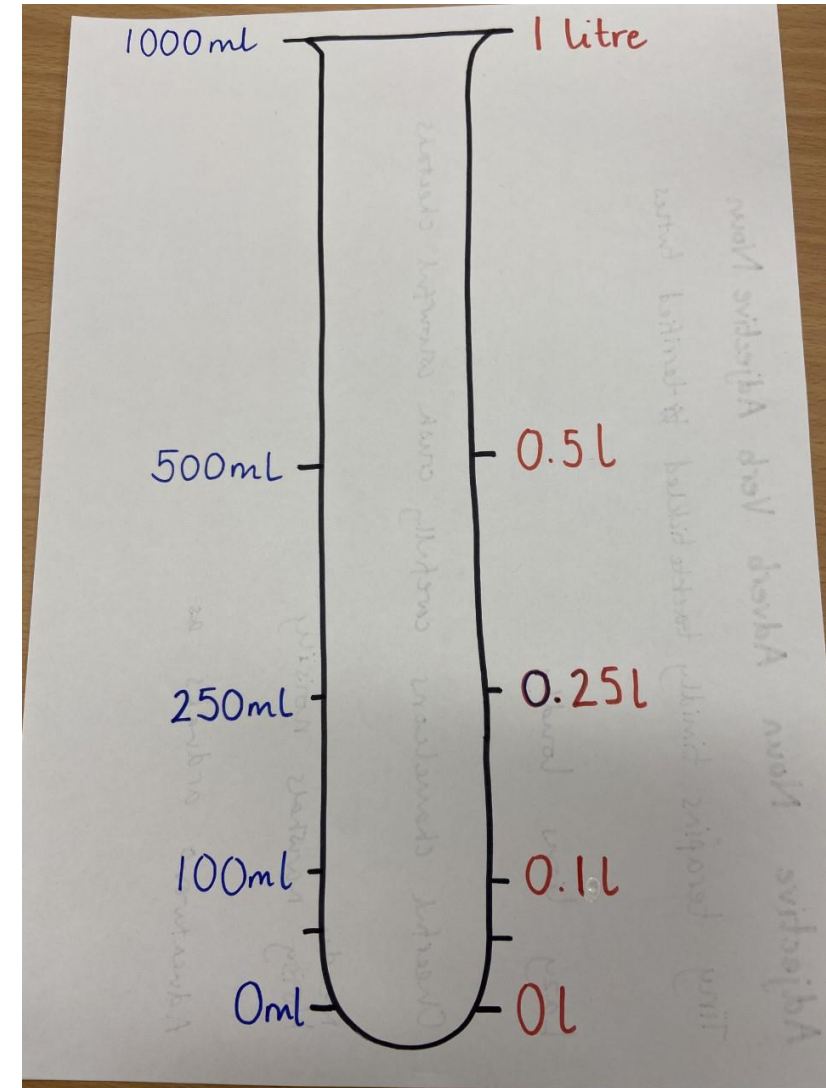13. Find the average number of goals scored.

Ani	Ted	Jinny
9	11	13

Maths
Challenge One

Draw and finish the measuring scale. Aim to add at least 5 different measurements to the scale in the correct places. Can you add the measurement in ml and l?

Brilliant Challenge

Answer the questions in your book.

Read each scale carefully. Write the measurements for each scale in ml and l.

Remember to work out what each step of the scale is. Clue: There are 10 steps of the scale to reach 1l.
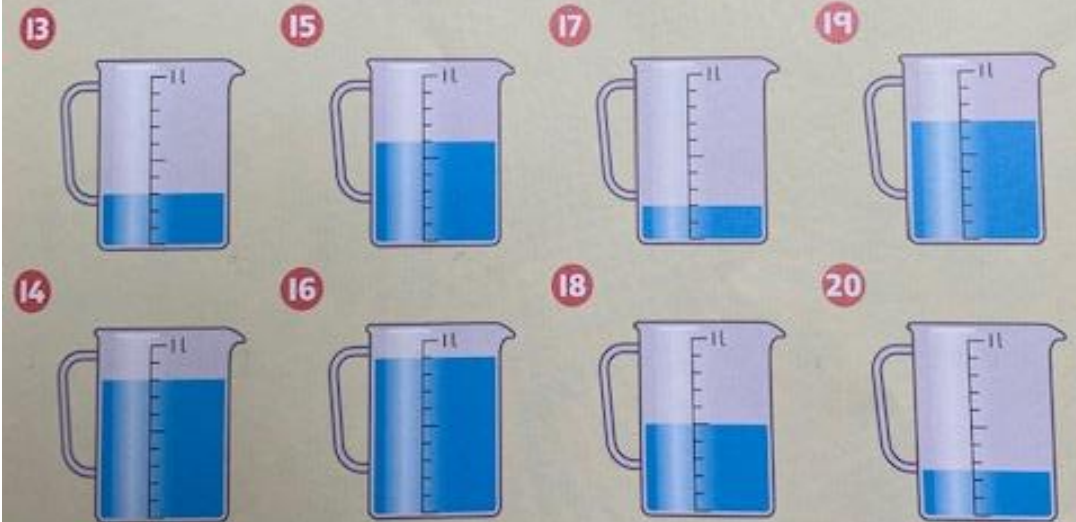
Write each measurement in millilitres.

1. 4l
2. 0·5l
3. 0·2l
4. 1·4l
5. 0·25l
6. 1·75l

Write each measurement in litres.

7. 3000 ml
8. 400 ml
9. 1500 ml
10. 750 ml
11. 2800 ml
12. 3250 ml

Read each scale. How much is in each jug?

13.   15.   17.   19.

14.   16.   18.   20.
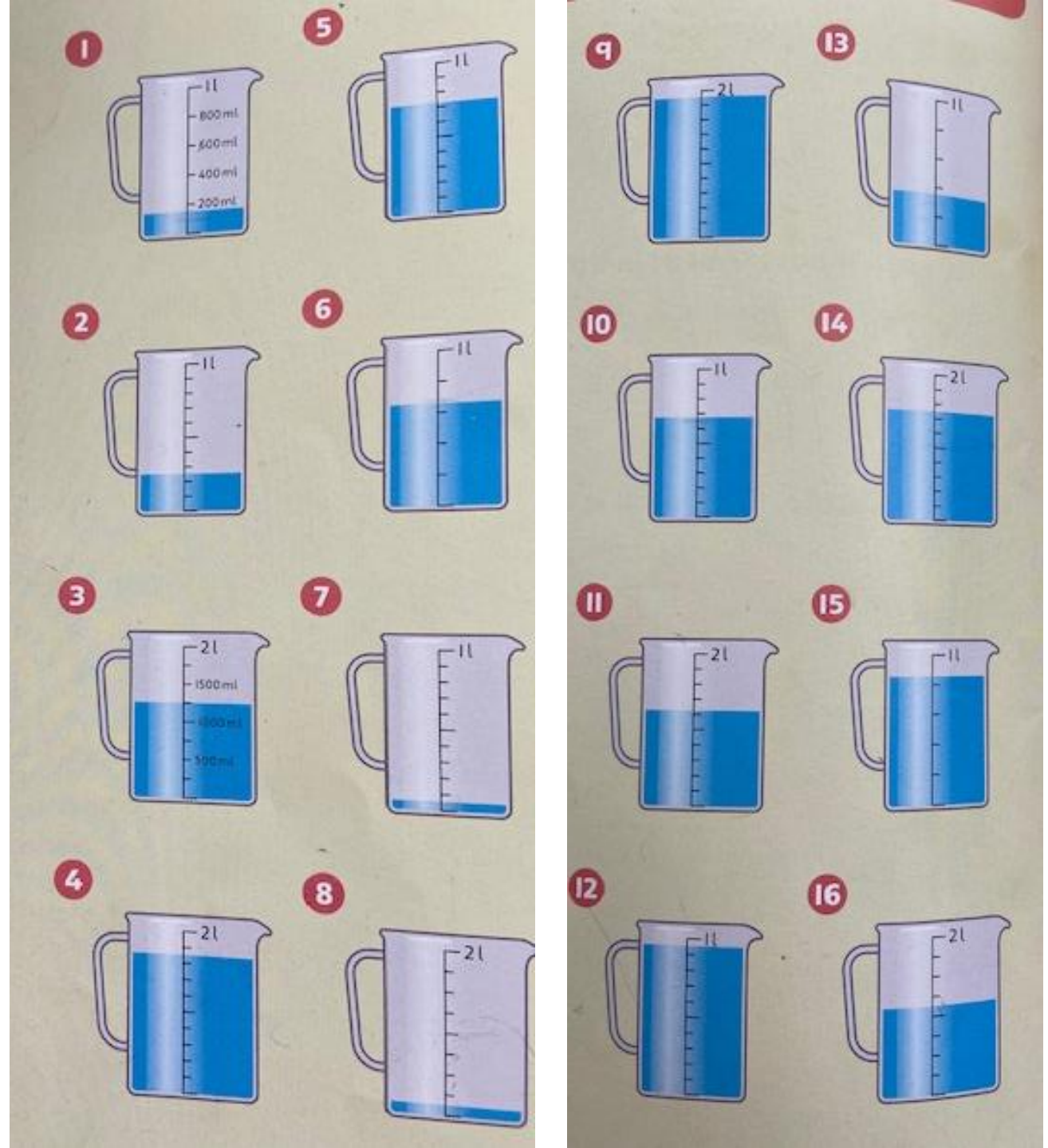
THINK Write these measurements in order, from the least to the greatest:

500 ml   0·75 litres   0·2 litres   350 ml   1200 ml   1·4 litres

Fantastic Challenge

Read each scale carefully. Write the measurements for each scale in both **ml and l.**

Remember count the steps of the scale carefully – they don't all go up in steps of 100ml and the liquid is not always on the line!

Extension Challenge

Have you mastered conversions of metric measurements?

Have a go at these questions...

Have you mastered converting measures?

a) Copy and complete.

8 kg = ☐ g   5 km = ☐ m   ☐ litres = 3000 ml
1·25 m = ☐ cm   4 cm = ☐ mm   2·6 kg = ☐ g
15 km = ☐ m   3·75 litres = ☐ ml ☐ m = 400 cm
☐ cm = 16 mm

b) Write > or < between each pair of measures.

3·5 kg ☐ 2000 g   36 mm ☐ 5 cm
765 cm ☐ 6 m   2465 ml ☐ 3 litres

Champions' Challenge

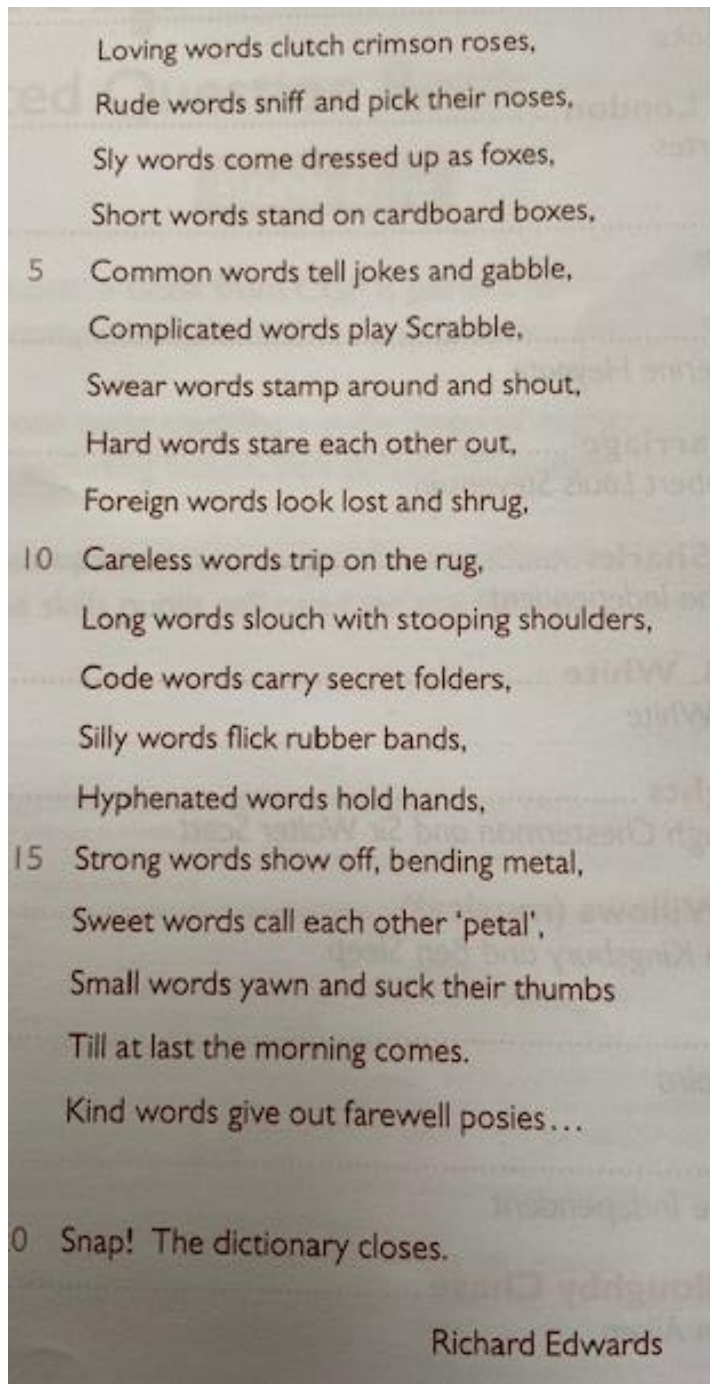1. What distance in millimetres is half-way between 32 cm and 33 cm?

2. What mass in grams is half-way between 2·5 kg and 2·6 kg?

3. Write 4 metres as millimetres.

4. How many millimetres are in one kilometre?

English

This comprehension is based on a poem called 'The Word Party' by Richard Edwards.

Read the poem carefully and answer the questions in full (and neat) sentences in your orange book.

Loving words clutch crimson roses,
Rude words sniff and pick their noses,
Sly words come dressed up as foxes,
Short words stand on cardboard boxes,
5   Common words tell jokes and gabble,
Complicated words play Scrabble,
Swear words stamp around and shout,
Hard words stare each other out,
Foreign words look lost and shrug,
10   Careless words trip on the rug,
Long words slouch with stooping shoulders,
Code words carry secret folders,
Silly words flick rubber bands,
Hyphenated words hold hands,
15   Strong words show off, bending metal,
Sweet words call each other 'petal',
Small words yawn and suck their thumbs
Till at last the morning comes.
Kind words give out farewell posies...

0   Snap! The dictionary closes.

Richard Edwards

Comprehension Questions

Remember to write your answers as full sentences in your book.

1. Write two things that the poet thinks are impolite.
2. Write down one adjective to describe the behaviour of 'swear words' (line 7) according to the poem. Why do you think swear words are written about in this way?
3. Why do you think the poet says that hyphenated words 'hold hands' (line 14)?
4. Why do you think line 20 is separated from all the other lines in the poem?
5. What technique does the poet use to make the words seem alive? Irony, personification or exaggeration?
6. Which is your favourite line in the poem? Explain your answer.
7. Some people might say dictionaries are boring books. Do you think this poem makes dictionaries seem boring or interesting? Explain your answer.