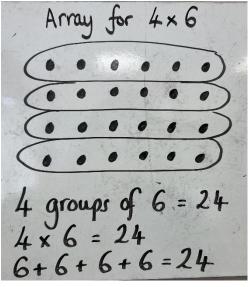
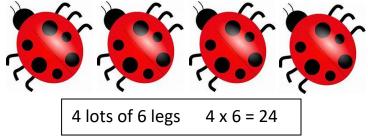


Times tables and mental maths

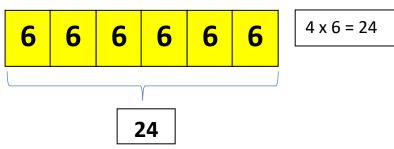
When teaching times tables (and any mathematical concept), we teach the children to first develop a deep understanding of what they are learning. Learning facts by heart is essential, but first we need children to understand what that maths really 'means'. Yes we want children to be able to quickly recall that $4 \times 6 = 24$, but first we teach them what 4×6 means using representations. For example:



The children may also see times tables represented through **pictures**:



Or bar models:



The calculation is always shown along-side the visual so children make a connection between the pictorial and the abstract calculation.

Children are also taught that multiplication is **commutative**. This means that it doesn't matter which order the numbers are in, the product is the same. Eg

$$4 \times 6 = 24$$

$$6 \times 4 = 24$$

Related facts: the children also learn the related facts. Eg

$$24 \div 4 = 6$$

$$24 \div 6 = 4$$

What times tables are children expected to know?

The national curriculum sets out that children should know all of their multiplication facts up to 12×12 by the end of year 4.

| | Counting | Multiplication facts |
|--------|--------------------------------|--|
| Year 2 | Count in multiples of 2, 3 | recall and use multiplication and division |
| | and 5 from 0 and in tens | facts for the 2, 5 and 10 multiplication |
| | from any number forward | tables |
| | and backward | |
| Year 3 | count from 0 in multiples of | recall and use multiplication and division |
| | 4, 8, 50 and 100 | facts for the 3, 4 and 8 multiplication |
| | | tables |
| Year 4 | count in multiples of 6, 7, 9, | recall multiplication and division facts for |
| | 25 and 1000 | multiplication tables up to 12 × 12 |
| | | |

<u>Times tables tests/ mental maths tests</u>

At Woodside, the children will take a times table test each week in years 3 and 4. The children work their way through a series of levels, receiving a certificate after completing a whole level. The expectation is that the children can answer each question in around 6 seconds (or a whole test in around 2 ½ minutes)- which is the amount of time given in the end of year 4 national multiplication check.

Once the children have completed the multiplication levels, they move onto mental maths tests in years 4 and 5. These mental maths tests comprise some of the key facts that we would like children to know by heart, or those that we would like them to be able to work out quickly. We would like them to have <u>'automaticity'</u> of these key facts. In year 6, the children continue to focus on their automatic recall of key facts as well as arithmetic.

These tests comprise a very small fraction of our weekly maths lessons and are often used as a 'starter' to a lesson once per week.

Woodside multiplication levels

| Level | Content on the test | | | | |
|-------------|--|-------------------------------------|----------------|-------------------|--|
| Orange | Levels 1, 2 and 3. The children are given pictorial representations to | | | | |
| J | | support them. | | | |
| Green | Levels 1, 2 | and 3. The children answer multip | lication quest | ions on the 2, 5 | |
| | and 10 x ta | bles. | | | |
| Blue | Levels 1, 2 | and 3. Divide by 2, 10 and 5. The c | hildren are gi | ven pictorial | |
| | representa | tions to support them. | | | |
| Purple | Levels 1, 2, | 3. The children answer division qu | uestions using | g the 2, 5 and 10 | |
| | times table | S. | | | |
| | | | | | |
| Bronze | Level 1 | 2 x tables | X and ÷ | 24 questions | |
| | Level 2 | 10 x tables | X and | 24 questions | |
| | | ÷ | | | |
| | Level 3 | 5 x tables | X and ÷ | 24 questions | |
| | Level 4 | Mixed 2, 5 and 10 times tables | X and ÷ | 24 questions | |
| | | | | | |
| Silver | Level 1 | 3 x tables | X and ÷ | 24 questions | |
| | Level 2 | 4 x tables | X and ÷ | 24 questions | |
| | Level 3 | 8 x tables | X and ÷ | 24 questions | |
| | Level 4 | Mixed 3 and 4 times tables | X and ÷ | 24 questions | |
| | Level 5 | Mixed 4 and 8 times tables | X and ÷ | 24 questions | |
| | Level 6 | Mixed 3 and 4 and 8 X tables | X and ÷ | 24 questions | |
| | | | | | |
| Gold | Level 1 | 6 x tables | X and ÷ | 24 questions | |
| | Level 2 | 7 x tables | X and ÷ | 24 questions | |
| | Level 3 | 9 x tables | X and ÷ | 24 questions | |
| | Level 4 | 11 x tables | X and ÷ | 24 questions | |
| | Level 5 | 12 x tables | X and ÷ | 24 questions | |
| | | | | | |
| Platinum | Level 1 | Mixed 6, 7, 9, 11, 12 x tables | X only | 24 questions | |
| | Level 2 | Mixed 6, 7, 9, 12 | ÷ only | 24 questions | |
| | Level 3 | Mixed ALL | X only | 24 questions | |
| | Level 4 | Mixed ALL | ÷ only | 24 questions | |
| | Level 5 | Mixed ALL | x and ÷ | 24 questions | |
| Speedy | Level 6 | Mixed ALL | x and ÷ | 40 questions | |
| Super sonic | Level 7 | Mixed ALL | x and ÷ | 50 questions | |

An example orange level test.

| | | Answer | |
|---|-------------------------|--------|--|
| 1 | 5 x 5= 5 lots of 5 | | |
| | | | |
| 2 | 8 x 5= 8 lots of 5 | | |
| | | | |
| 3 | 3 x 5= 3 lots of 5 | | |
| | 31013013 | | |
| 4 | 7 x 5= | | |
| | 7 lots of 5 | | |
| 5 | 11 x 5= 11 lots of 5 | | |
| | | | |
| 6 | 4 x 5 = 4 lots of 5 | | |
| | 4 lots of 5 | | |
| 7 | 6 x 5 = 6 lots of 5 | | |
| | | | |

An example green level test.

| 1 | 7 x 2 = | |
|----|----------|--|
| 2 | 2 x 2 = | |
| 3 | 6 x 2 = | |
| 4 | 10 x 2 = | |
| 5 | 1 x 2 = | |
| 6 | 9 x 2 = | |
| 7 | 5 x 2 = | |
| 8 | 11 x 2 = | |
| 9 | 3 x 2 = | |
| 10 | 8 x 2 = | |
| 11 | 12 x 2 = | |
| 12 | 4 x 2 = | |

An example blue level test.

| | | Answer | |
|---|---|--------|--|
| 1 | 8 ÷ 2 = | | |
| | How many groups of 2 are there in 8? | | |
| | 77 77 77 77 | | |
| _ | 422 | | |
| 2 | $12 \div 2 =$ How many groups of 2 are there in 12? | | |
| | 33 33 33 33 33 33 | | |
| 3 | 6 ÷ 2 = | | |
| | How many groups of 2 are there in 6? | | |
| | 33 33 33 | | |
| 4 | 18 ÷ 2 = | | |
| | How many groups of 2 are there in 18? | | |
| | 77 77 77 77 77 77 77 77 77 | | |
| 5 | 16 ÷ 2 = | | |
| | How many groups of 2 are there in 16? | | |
| | 33 33 33 33 33 33 33 33 33 33 33 33 33 | | |
| 6 | 4 ÷ 2 = | | |
| | How many groups of 2 are there in 4? | | |
| | 77 77 | | |
| 7 | 14 ÷ 2 = | | |
| | How many groups of 2 are there in 14? | | |
| | 77 77 77 77 77 77 77 | | |
| | | | |

An example purple level test.

| 1 | 50 ÷ 5 = | |
|----|----------|--|
| 2 | 25 ÷ 5 = | |
| 3 | 5 ÷ 5 = | |
| 4 | 45 ÷ 5 = | |
| 5 | 20 ÷ 5 = | |
| 6 | 40 ÷ 5 = | |
| 7 | 10 ÷ 5 = | |
| 8 | 55 ÷ 5 = | |
| 9 | 35 ÷ 5 = | |
| 10 | 15 ÷ 5 = | |
| 11 | 60 ÷ 5 = | |
| 12 | 30 ÷ 5 = | |

An example bronze level test.

| 1 | l | 3 x 5 = | |
|---|---|----------|--|
| | 2 | 9 x 5 = | |
| 3 | 3 | 4 x 5 = | |
| 4 | 1 | 2 x 5 = | |
| | 5 | 10 x 5 = | |
| 6 | 5 | 8 x 5 = | |
| 7 | 7 | 1 x 5 = | |
| 8 | 3 | 11 x 5 = | |
| ٥ |) | 7 x 5 = | |
| 1 | 0 | 5 x 5 = | |
| 1 | 1 | 12 x 5 = | |
| 1 | 2 | 6 x 5 = | |

| 13 | 20 ÷ 5= | |
|----|---------|---|
| 14 | 15 ÷ 5= | |
| 15 | 5 ÷ 5= | |
| 16 | 50 ÷ 5= | |
| 17 | 45 ÷ 5= | |
| 18 | 10 ÷ 5= | |
| 19 | 55 ÷ 5= | |
| 20 | 40 ÷ 5= | |
| 21 | 25 ÷ 5= | |
| 22 | 35 ÷ 5= | |
| 23 | 60 ÷ 5= | |
| 24 | 30 ÷ 5= | · |

An example silver level test

| | | |
|----|----------|------|
| 1 | 4 x 4 = | |
| 2 | 24 ÷ 4 = | |
| 3 | 3 x 3 = | |
| 4 | 27 ÷ 3 = | |
| 5 | 6 x 4 = | |
| 6 | 16 ÷ 4 = | |
| 7 | 3 x 4 = | |
| 8 | 5 x 3 = | |
| 9 | 21 ÷ 3 = | |
| 10 | 15 ÷ 3 = | |
| 11 | 12 x 3 = | |
| 12 | 36 ÷ 3 = | |

| 13 | 33 ÷ 3 = | |
|----|----------|--|
| 14 | 8 x 3 = | |
| 15 | 44 ÷ 4 = | |
| 16 | 7 x 4 = | |
| 17 | 12 x 4 = | |
| 18 | 6 x 3 = | |
| 19 | 32 ÷ 4 = | |
| 20 | 8 x 4 = | |
| 21 | 18 ÷ 3 = | |
| 22 | 7 x 3 = | |
| 23 | 9 x 4 = | |
| 24 | 9 x 3 = | |

An example gold level test

| 1 | 9 x 9 = | |
|----|----------|--|
| 2 | 1 x 9 = | |
| 3 | 8 x 9 = | |
| 4 | 7 x 9 = | |
| 5 | 3 x 9 = | |
| 6 | 6 x 9 = | |
| 7 | 4 x 9 = | |
| 8 | 2 x 9 = | |
| 9 | 10 x 9 = | |
| 10 | 5 x 9 = | |
| 11 | 12 x 9 = | |
| 12 | 11 x 9 = | |

| 13 | 108 ÷ 9 = | |
|----|-----------|--|
| 14 | 45 ÷ 9 = | |
| 15 | 9 ÷ 9 = | |
| 16 | 99 ÷ 9 = | |
| 17 | 36 ÷ 9 = | |
| 18 | 18 ÷ 9 = | |
| 19 | 54 ÷ 9 = | |
| 20 | 27 ÷ 9 = | |
| 21 | 63 ÷ 9 = | |
| 22 | 90 ÷ 9 = | |
| 23 | 72 ÷ 9 = | |
| 24 | 81 ÷ 9 = | |

An example platinum level test

| 1 | 7 <u>x 6</u> = | |
|----|----------------|--|
| 2 | 30 ÷ 6 = | |
| 3 | 7 x 8 = | |
| 4 | 35 ÷7 = | |
| 5 | 9 x 3 = | |
| 6 | 48 ÷ 6 = | |
| 7 | 4 x 9 = | |
| 8 | 7 x 9 = | |
| 9 | 24 ÷ 3 = | |
| 10 | 9 x 6 = | |
| 11 | 6 x 8 = | |
| 12 | 42 ÷ 7 = | |

| 13 | 12 x 8 = | |
|----|------------|--|
| 14 | 120 ÷ 12 = | |
| 15 | 56 ÷7 = | |
| 16 | 12 x 4 = | |
| 17 | 9 x 8 = | |
| 18 | 72 ÷ 12 = | |
| 19 | 6 x 9 = | |
| 20 | 12 x 11 = | |
| 21 | 108 ÷ 12 = | |
| 22 | 9 x 9 = | |
| 23 | 63 ÷ 7 = | |
| 24 | 7 x 8 = | |
| | | |

After finishing the multiplication levels, the children will move onto the following mental maths tests. They are **year group specific**, which means we don't expect the children to answer anything that is beyond the objectives for their year group.

| Year 4 | |
|------------|--|
| Emerald | Levels 1-6 Children will complete multiplication squares each week. 5 minutes |
| Sapphire | Levels 1-5 Children complete mental maths tests in 'automaticity' or questions they can work out quickly. 30 questions 5 minutes |
| Ruby | Levels 1-5 Children complete mental maths tests in 'automaticity' or questions they can work out quickly. 38 questions 5 minutes |
| Diamond | Levels 1-5 Includes word problems 15 questions 5 minutes |
| Year 5 | |
| Pythagoras | Levels 1-6 Children will complete multiplication squares each week. 5 minutes |
| Archimedes | Levels 1-5 Children complete mental maths tests in 'automaticity' or questions they can work out quickly. 40 questions 5 minutes |
| Pascal | Levels 1-5 Includes word problems 15 questions 5 minutes |
| Turing | Levels 1-5 Children complete mental maths tests in 'automaticity' or questions they can work out quickly. 40 questions 5 minutes |
| Newton | Levels 1-5 Children complete mental maths tests in 'automaticity' or questions they can work out quickly. May involve 'quick' formal methods. 30 questions 5 minutes |

An example Emerald level test

| | 3 | 7 | 4 | 9 | 10 | 12 | 1 | 6 | 11 | 5 | 8 | 2 |
|----|---|---|---|---|----|----|---|---|----|---|---|---|
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |

An example Sapphire level test

| 1 | Number of seconds in a minute | seconds | 16 | Write $\frac{9}{10}$ as a decimal | | |
|----|--|---------|----|---|----|--|
| 2 | 42 ÷ 6 | | 17 | 1 ÷ 10 | | |
| 3 | $\frac{3}{4}$ of 40 | | 18 | $\frac{1}{8} + \frac{3}{8}$ | | |
| 4 | 1, 210 + 8000 | | 19 | Write $\frac{40}{100}$ as a decimal | | |
| 5 | 4.2 + 1.6 | | 20 | 4 = 40 ÷ | | |
| 6 | 7 x 7 | | 21 | Write 7:15pm as a 24-hour digital clock | | |
| 7 | <u>56 ÷</u> 8 | | 22 | 18 ÷ 10 | | |
| 8 | 817 rounded to the nearest <u>100</u> | | 23 | 50 x 7 | | |
| 9 | 398 rounded to the nearest <u>10</u> | | 24 | 18 x 100 | | |
| 10 | 4 kg =g | g | 25 | 10 degrees colder than 5 ° C | °c | |
| 11 | 70cm =m | m | 26 | 57 x 100 | | |
| 12 | 5 x 30 | | 27 | Perimeter of this regular pentagon. Each side is 7cm. | cm | |
| 13 | You spend £12.50. What change do you get from £20? | £ | 28 | 30 minutes after 4:10pm | pm | |
| 14 | 5,817 - 200 | | 29 | 1.5 litres =ml | ml | |
| 15 | $\frac{1}{3}$ of 27 | | 30 | 54 ÷ 6 | | |

An example Ruby level test

| - | | | | | T = - | | |
|----------|---|------|----------|----|--------------------------------|----------|------------------------|
| 1 | Number of days in | | | 20 | 6 x 9 | | |
| | December | days | | | | | |
| | | | | | | | |
| 2 | £1.20 ÷ 3 | | | 21 | 3 ÷ 10 | | |
| - | 21.20 . 3 | _ | | | 3.10 | | |
| | | р | | | | | |
| | | | | | | | Ш |
| 3 | $\frac{3}{4}$ of 24 | | | 22 | $\frac{1}{7} + \frac{4}{7} =$ | | |
| | 4 | | | | 7 7 | | |
| | 2.242 - 500 | | | 22 | 2 | | \vdash |
| 4 | 2,312 + 500 | | | 23 | Write 3 as a decimal | | |
| | | | | | 10 | | |
| | | | | | | | |
| 5 | 3.7 + 0.3 | | | 24 | 4 = 28 ÷ | | |
| | | | | | | | |
| | | | | | | | |
| _ | 120 | | | 25 | M-in- 5-20 24 h | | \vdash |
| 6 | 12 x 9 | | | 25 | Write 5:20pm as a 24-hour | | |
| | | | | | digital clock | | |
| | | | | | | | <u> </u> |
| 7 | 48 ÷ 6 | | | 26 | 67 ÷ 10 | | |
| | | | | | | | |
| | | | | | | | |
| | 4.8 rounded to the | | \vdash | 27 | 1 245 | | $\vdash\vdash\vdash$ |
| 8 | | | | 27 | 1,245 rounded to the nearest | | |
| \vdash | nearest whole number | | | | 100 | | Ш |
| 9 | 1/4 of 48 | | | 28 | 41 x 100 | | |
| | 4 | | | | | | |
| 40 | 1 | | | | | | $\vdash\vdash\vdash$ |
| 10 | What is $\frac{1}{2}$ km in metres? | | | 29 | 4 degrees colder than 1 degree | | |
| | - | m | | | | | |
| 11 | 12mm =cm | | | 30 | 39 x 10 | | |
| | | | | "" | 55 % 10 | | |
| | | cm | | | | | \vdash |
| 12 | 3 x 2 x 7 | | | 31 | Your shopping costs £4.21. | | |
| | | | | | How much change do you get | £ | |
| | | | | | from £5? Write your answer in | | |
| | | | | | £. | | |
| 13 | You spend 56p. What | | | 32 | 1 x 10 x 0 | | М |
| | change do you get from | £ | | | | | |
| | | - | | | | | |
| | £2? | | \vdash | | | | $\vdash\vdash$ |
| 14 | 4,601 + 20 | | | 33 | Number of days in March | | |
| | | | | | | | |
| 15 | $\frac{1}{5}$ of 10 | | | 34 | 32 ÷ 100 | | |
| | 5 20 | | | | | | |
| | 1 | | <u> </u> | | | | $\vdash \vdash \vdash$ |
| 16 | Write $\frac{1}{2}$ as a <u>decimal</u> | | | 35 | 3 x 8 then double the answer | | |
| | | | | | | | |
| 17 | Number of right angles in | | | 36 | 156 rounded to the nearest 10 | | $\vdash\vdash$ |
| 1/ | | | | 30 | 130 rounded to the hearest 10 | | |
| | a square | | \vdash | | 2 | | \sqcup |
| 18 | | | | 37 | $\frac{3}{4}$ of 16 | | |
| | will each person get? | £ | | | * | | |
| | _ | | | | | | |
| 19 | 0.4 litres =ml | | | 38 | Number of seconds in 2 1/2 | | М |
| | | ml | | | 4 | seconds | |
| | | "" | | | minutes | secollus | $oxed{oxed}$ |
| | | | | | | | 7 |

An example Diamond level test

| 1 | A farmer plants carrots in rows of 6. | | |
|-----|---|-----------|----------|
| | The farmer plants 24 rows. | | |
| | How many carrots does she plant in total? | carrots | |
| | | | |
| 2 | Woodside's relay team has 4 members. | _ | |
| | Each runner takes 60 seconds to run a lap. | seconds | |
| _ | How many seconds does it take all 4 members to run in total? | | _ |
| 3 | A playground is 320m long. | | |
| | It is divided into 4 equal sections. How long is each section? | metres | |
| | now long is each section? | | |
| 4 | Gill buys a hot dog for £3.10, fries for £2.90 and a drink for £1.50. How much change | | |
| ļ . | does she get from £10? | £ | |
| | does she get nom 220: | - | |
| | | | |
| 5 | A bucket holds 7 litres of water. | | |
| | Jake pours 3.5 litres out. | litres | |
| | How much water is left in the bucket? | | |
| | | | |
| 6 | Anvay reads $\frac{3}{4}$ of his book. | | |
| | • | | |
| | There are 5 pages left to read. | pages | |
| | How many pages long is his book? | | |
| 7 | Nial is 28 months | | |
| | How old will he be on his next birthday? | years old | |
| | • | | |
| 8 | The temperature is 10 degrees. The temperature drops by 12 degrees. | | |
| | What is the temperature now? | °c | |
| _ | | | _ |
| 9 | What fraction is shaded? | | |
| | \longrightarrow | | |
| | | | |
| 10 | Billy has 80 football stickers. | | |
| | lessie has double this amount | cards | |
| | Freya ten times more than Jessie. | | |
| | How many cards does Freya have? | | |
| 11 | A toilet uses 8 litres of water per flush. | | |
| | By midday, the toilet has been flushed 20 times. | litres | |
| | How much water has been used? | | |
| 12 | A crate holds 80 cans. | | |
| | There are 9 crates in the supermarket. | | |
| | 20 cans are damaged. | cans | |
| | How many undamaged cans are left? | | |
| 13 | A bottle holds 450ml of liquid. | | |
| | How many 25ml glasses will the bottle fill? | glasses | |
| 14 | Jennifer is using a recipe. | | \vdash |
| 14 | For every 50g of pasta she uses, she must use 20g of onions. | | |
| | She uses 400g of pasta. How many grams of onions will she need? | grams | |
| | one data long or pasta. From many grants of official will still field: | | |
| 15 | Find $\frac{3}{5}$ of $\underline{60}$ | | |
| | 5 5 == | | |
| | | | |

An example Pythagoras level test

| | 5 | 1 | 8 | 10 | 3 | 12 | 4 | 11 | 9 | 7 | 6 | 2 |
|----|---|---|---|----|---|----|---|----|---|---|---|---|
| 2 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

An example Archimedes level test

| 1 Draw 2 lines of <u>symmetry</u> 21 9 x 9 22 5 + 10 23 36 x 100 23 3 1 + 5 8 | | | | | | | |
|--|----------|-----------------------------|--------|----------|-----------------------------------|---|----------|
| 3 36 x 100 | 1 | Draw 2 lines of symmetry | | 21 | 9 x 9 | | |
| 3 36 x 100 | | | | | | | |
| 3 36 x 100 | L | | | <u> </u> | | | Ш |
| 3 36 x 100 | 2 | $\frac{5}{2} - \frac{1}{2}$ | | 22 | 5 ÷ 10 | | |
| 11 x 12 | 2 | | | 22 | 1 5 | | \vdash |
| 4 11 x 12 24 Write 0.7 as a fraction 5 6,789 - 4000 25 8 = 72 + 8 6 4,603 - 500 26 Write 2:28pm as a 24-hour digital clock 27 7 38 + = 100 27 56 + 10 28 8 11.2 rounded to the nearest whole number 28 1,315 rounded to the nearest 100 28 9 2m 45 cm = cm 29 18 x 100 29 10 3 + 100 30 Number of days in April and May altogether 20 11 2423 - 20 31 4 + 10 20 12 IX + V = Write the answer in Roman Numerals 32 Shopping costs £4.32. How much change from £10? £ 13 Half of 50 33 3 x 3 x 3 33 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 + 100 36 0.3 + 0.9 37 4500 mm =litres | 3 | 36 X 100 | | 23 | 1+3 | | |
| Solution | 4 | 11 v 12 | | 2/ | | | \vdash |
| 1 | 4 | 11 x 12 | | 24 | Write 0.7 as a fraction | | |
| 1 | 5 | 6 789 - 4000 | | 25 | 8 = 72 ÷ | | \vdash |
| Clock | - | 0,703 4000 | | ~ | 0 - 72 · <u> </u> | | |
| Clock | | | | | | | |
| Clock | 6 | 4.603 - 500 | | 26 | Write 2:28pm as a 24-hour digital | | Н |
| 8 | | -, | | | - | | |
| 8 | | | | | | | |
| 8 | 7 | 38 + = 100 | | 27 | 56 ÷ 10 | | П |
| whole number 29 18 x 100 30 Number of days in April and May altogether 31 4 x 10 32 Shopping costs £4.32. How much change from £10? £ 4 x 10 4 x 10 | | | | | | | |
| whole number 29 18 x 100 30 Number of days in April and May altogether 31 4 x 10 32 Shopping costs £4.32. How much change from £10? £ 4 x 10 4 x 10 | | | | | | | |
| 9 2m 45 cm = cm | 8 | 11.2 rounded to the nearest | | 28 | 1,315 rounded to the nearest 100 | | |
| 10 3 ÷ 100 30 Number of days in April and May altogether 31 4 ÷ 10 32 Shopping costs £4.32. How much change from £10? £ 13 Half of 50 33 3 x 3 x 3 33 x 3 x 3 34 400 50 50 50 50 50 50 | | whole <u>number</u> | | | | | |
| 10 3 ÷ 100 30 Number of days in April and May altogether 31 4 ÷ 10 32 Shopping costs £4.32. How much change from £10? £ 13 Half of 50 33 3 x 3 x 3 33 x 3 x 3 34 400 50 50 50 50 50 50 | | | | | | | |
| altogether | 9 | 2m 45 cm = cm | cm | 29 | 18 x 100 | | |
| altogether | | | | | | | |
| altogether | | | | | | | Ш |
| 11 2423 - 20 31 4 ÷ 10 4 ÷ 10 4 ÷ 10 12 IX + V = Write the answer in Roman Numerals 32 Shopping costs £4.32. How much change from £10? £ 1 14 1000 less than 4,312 33 3 x 3 x 3 3 x 3 x 3 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x | 10 | 3 ÷ 100 | | 30 | | | |
| 12 IX + V = Write the answer in Roman Numerals 32 Shopping costs £4.32. How much change from £10? £ 13 Half of 50 33 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 + 100 16 $\frac{40}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | | | | | altogether | | |
| 12 IX + V = Write the answer in Roman Numerals 32 Shopping costs £4.32. How much change from £10? £ 13 Half of 50 33 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 + 100 16 $\frac{40}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | \vdash | | | | | | Ш |
| Write the answer in Roman Numerals change from £10? £ 13 Half of 50 33 3 x 3 x 3 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 100 $\frac{1}{100}$ 100 $\frac{1}{100}$ 17 What is the perimeter of a square with side lengths of 2.5cm? 2.5cm? 37 4500 mm =litres 18 70mm =cm 38 $\frac{3}{4}$ of 48 39 Number of hours in a day and a half | 11 | 2423 - 20 | | 31 | 4 ÷ 10 | | |
| Write the answer in Roman Numerals change from £10? £ 13 Half of 50 33 3 x 3 x 3 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 100 $\frac{1}{100}$ 100 $\frac{1}{100}$ 17 What is the perimeter of a square with side lengths of 2.5cm? 2.5cm? 37 4500 mm =litres 18 70mm =cm 38 $\frac{3}{4}$ of 48 39 Number of hours in a day and a half | | | | | | | |
| Write the answer in Roman Numerals change from £10? £ 13 Half of 50 33 3 x 3 x 3 3 x 3 x 3 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 100 $\frac{1}{100}$ 100 $\frac{1}{100}$ 17 What is the perimeter of a square with side lengths of 2.5cm? 2.5cm? 37 4500 mm =litres 18 70mm =cm 38 $\frac{3}{4}$ of 48 39 Number of hours in a day and a half | 4.0 | 102 12 | | - | | | \vdash |
| Numerals 33 3 x 3 x 3 3 x 3 x 3 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x | 12 | | | 32 | | | |
| 13 Half of 50 33 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x | | | | | change from £10? | f | |
| 14 1000 less than 4,312 34 Write 52 in Roman Numerals 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ $\frac{1}{100}$ 36 0.3 + 0.9 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | 12 | | | 22 | 2 2 2 | | \vdash |
| 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 36 0.3 + 0.9 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | 13 | nair or 50 | | 33 | 3 X 3 X 3 | | |
| 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 36 0.3 + 0.9 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | | | | | | | |
| 15 $\frac{2}{3}$ of 33 35 31 ÷ 100 16 $\frac{40}{100}$ 36 0.3 + 0.9 17 What is the perimeter of a square with side lengths of 2.5cm? 37 4500 mm =litres l 18 70mm =cm 38 $\frac{3}{4}$ of 48 l 19 Double 36 39 Number of hours in a day and a half | 1.4 | 1000 less than 4 212 | | 2/ | Write 52 in Roman Numerals | | \vdash |
| 16 40/100 100 <td< td=""><td>14</td><td>1000 1633 (11811 4,512</td><td></td><td>34</td><td>Write 32 III Kolliali Wullierais</td><td></td><td></td></td<> | 14 | 1000 1633 (11811 4,512 | | 34 | Write 32 III Kolliali Wullierais | | |
| 16 40/100 100 <td< td=""><td>15</td><td>2 of 22</td><td></td><td>35</td><td>31 ÷ 100</td><td></td><td>\vdash</td></td<> | 15 | 2 of 22 | | 35 | 31 ÷ 100 | | \vdash |
| 100 | | 3 01 33 | | " | 51 - 100 | | |
| 100 | 4.5 | 40 | | - | | | \vdash |
| 17 What is the perimeter of a square with side lengths of 2.5cm? 18 70mm =cm | 16 | | | 36 | 0.3 + 0.9 | | |
| square with side lengths of 2.5cm? | | 100 | tenths | | | | |
| square with side lengths of 2.5cm? | 17 | What is the perimeter of a | | 27 | 4500 mm = litres | | \vdash |
| 2.5cm? 18 | 1 | - | cm | " | .500 11111110163 | 1 | |
| 18 70mm =cm 38 \frac{3}{4} \text{ of 48} 19 Double 36 39 Number of hours in a day and a half | | | | | | ' | |
| 19 Double 36 39 Number of hours in a day and a half | 18 | man willia | | 38 | 3 of 48 | | \vdash |
| 19 Double 36 Sylvamber of hours in a day and a half | | 70mm = cm | cm |] ~ | 4 01 40 | | |
| Double 36 half | | | | | | | |
| Double 36 half | 19 | | | 39 | Number of hours in a day and a | | Н |
| | | Double 36 | | | _ | | |
| 20 75 - 27 40 5,139 rounded to the nearest 10 | | | | | | | |
| | 20 | 75 - 27 | | 40 | 5,139 rounded to the nearest 10 | | П |
| | | | | | | | |

An example Pascal level test

| 1 | A shop sells oranges in boxes of 12. | | |
|----|---|----------|--|
| | There are 20 <u>boxes</u> | | |
| | How many oranges are there in total? | | |
| 2 | Survey of favourite television programmes. Programme Tally Total Dr Who PPPI 23 Tracey Beaker PP 15 Blue Peter PPI 17 Newsround 5 | children | |
| | How many children were surveyed in total? | | |
| 3 | What 3D shape is this a net of? | | |
| 4 | Mike buys a hot dog for £3.15, fries for £2.90 and a drink for £0.70. How much | | |
| | change does he get from £10? | £ | |
| 5 | A tank holds 1000 ml of water. | | |
| | Jake pours $\frac{3}{4}$ of the water out. | ml | |
| | How much water is left in the tank? | | |
| 6 | Gerry collects 184 conkers. He divides them equally into 4 groups. | k | |
| | How many conkers are in each group? | conkers | |
| | | | |
| 7 | Louise is $6\frac{1}{2}$ years old. | | |
| | How many months is that? | months | |
| | | | |
| 8 | Gia has read0020 $\frac{1}{4}$ of her book. | | |
| | There are 36 pages left to read. | pages | |
| | How many pages has she read? | | |
| 9 | A cafe used 152 cups per day. | | |
| | How many cups does the café use in a week? | cups | |
| | | | |
| 10 | If 4 tomatoes cost 60p. How much do 6 tomatoes cost? | | |
| | | р | |
| 11 | Robert's watch says 9:10am but the time is actually 10:15am. | | |
| | By how many minutes is Robert's watch slow? | minutes | |
| | | | |
| 12 | Pens cost 37p each. | | |
| | What is the total cost of 100 pens? | £ | |
| 13 | How many days are there in 52 weeks? | | |
| 13 | now many days are there in 32 weeks: | days | |
| | | | |
| 14 | In a row of 15 mugs 5 are blue and the rest are red. What fraction of the mugs | | |
| | are blue? | | |
| 15 | In a money box there are five £2 coins; three £5 notes; two £10 notes. | £ | |
| | How much money is in the money box altogether? | | |

An example Turing level test

| 1 Perimeter of a regular pentagon with side lengths of 9cm | | | | | | | | |
|--|-----|-----------------------------------|---------|----------|-----|----------------------------|-----------|---|
| of 9cm 2 Area of this rectangle in mm: | 1 | Perimeter of a regular | | | 21 | 720 ÷ 4 | | |
| of 9cm 2 Area of this rectangle in mm: | | pentagon with side lengths | cm | | | | | |
| Area of this rectangle in mm: | | | | | | | | |
| Mark 3D shape is this a net of Polymer 25 | 2 | | | | 22 | F : | :**: | |
| 30mm 70mm 23 | 4 | Area or this rectangle in mm. | | | 22 | <u> </u> | <u>ii</u> | |
| 70mm 23 | | | mm | | | 25 5 | 5 | |
| 23 | | 30mm | | | | | | |
| 23 | | 70mm | | | | | | |
| What 3D shape is this a net of? 24 Write 0.27 as a fraction 4 8,912m in km 25 60 = 180 ÷ | 3 | | | | 23 | 6 3 | | |
| What 3D shape is this a net of? 24 Write 0.27 as a fraction 4 8,912m in km 25 60 = 180 ÷ | - | | | | | - + | | |
| Main | | | | | | / 14 | | |
| Main | | | | | | | | |
| 8,912m in km | | What 3D shape is this a net | | | | | | |
| km | | of? | | | | | | |
| km | 4 | 8.912m in km | | | 24 | Write 0.27 as a fraction | | |
| Solution Solution | | * | km | | | | | |
| Seconds Seco | | | NIII | | | | | |
| Seconds Seco | | | | | | | | |
| 1250ml in litres | 5 | $\frac{1}{4\pi}$ of a kg in grams | | | 25 | 60 = 180 ÷ | | |
| Number of minutes in 8 | | 20 7 0 0 | g | | | | | |
| Number of minutes in 8 | _ | 40FO-stile Passes | | \vdash | 2.5 | 186-in- 44.45 | | _ |
| Number of minutes in 8 minutes 27 0.28 ÷ 10 | 6 | 1250ml in litres | | | 26 | | | |
| Number of minutes in 8 minutes 27 0.28 ÷ 10 | | | lL | | | hour digital clock | | |
| hours | | | | | | _ | | |
| hours | 7 | Number of minutes in 8 | | | 27 | 0.28 ÷ 10 | | |
| 8 4 hours 30 minutes after 20:45 9 Half of £5.60 £ 29 7 x 600 10 Continue the pattern: 2.4, 2.7, 3.0, | ı ′ | | | | 2, | 0.20 - 10 | | |
| 20:45 | | nours | minutes | | | | | |
| 20:45 | | | | | | | | |
| 20:45 | 8 | 4 hours 30 minutes after | | | 28 | 34,085 rounded to the | | |
| 9 Half of £5.60 | - | | | | | | | |
| 10 Continue the pattern: 2.4, 2.7, 3.0, | | 20.43 | | | | nearest 1000 | | |
| 10 Continue the pattern: 2.4, 2.7, 3.0, | _ | 11 15 105 50 | | | | 7 500 | | |
| 2.4, 2.7, 3.0, | 9 | Half of £5.60 | Í | | 29 | / x 600 | | |
| 2.4, 2.7, 3.0, | | | | | | | | |
| 2.4, 2.7, 3.0, | 10 | Continue the pattern: | | | 30 | 16 degrees colder than | | |
| 11 3.2m =cm | | _ | | | | | ۰۰ | |
| cm | | 2.4, 2.7, 3.0, | | | | , c | · | |
| cm | | | | | | | | |
| 12 83 32 1.26 - 0.5 | 11 | 3.2m =cm | | | 31 | 89 X 100 | | |
| 13 2.09 x 1000 33 6 x 20 x 4 14 10,261 + 1999 34 4.5 minutes in seconds 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | | cm | | | | | |
| 13 2.09 x 1000 33 6 x 20 x 4 14 10,261 + 1999 34 4.5 minutes in seconds 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | | | | | | | |
| 13 2.09 x 1000 33 6 x 20 x 4 14 10,261 + 1999 34 4.5 minutes in seconds 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | 12 | 83 | | | 32 | 1 26 - 0 5 | | |
| 14 10,261 + 1999 34 4.5 minutes in seconds seconds 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? £ 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 38 3/4 of 36 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | 12 | 0 | | | 52 | 1.20 0.3 | | |
| 14 10,261 + 1999 34 4.5 minutes in seconds seconds 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? £ 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 38 3/4 of 36 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | | | _ | | | | |
| Shopping costs £8.09. How much change do you get from £10? | 13 | 2.09 x 1000 | | | 33 | 6 x 20 x 4 | | |
| Shopping costs £8.09. How much change do you get from £10? | | | | | | | | |
| Shopping costs £8.09. How much change do you get from £10? | 14 | 10,261 + 1999 | | | 34 | 4.5 minutes in seconds | | |
| 15 322 ÷ 7 35 Shopping costs £8.09. How much change do you get from £10? 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | | | | | | seconds | |
| much change do you get from £10? | | | | | | | | |
| much change do you get from £10? | | | | <u> </u> | | | | |
| | 15 | 322 ÷ 7 | | | 35 | | | |
| | | | | | | much change do you get | £ | |
| 16 Write 289/1000 as a decimal 36 134 + 78 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? 38 3/4 of 36 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | | | | | | | |
| 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | 16 | 289 | | | 36 | | | |
| 17 48,271 – 33,000 37 16,782 – 2,431 18 £18 ÷ 4 people. How much will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | 10 | write 1000 as a decimal | | | 30 | 1577/0 | | |
| 18 £18 ÷ 4 people. How much will each person get? \$\frac{3}{4}\$ of 36 19 3.5 litres =ml \$\frac{3}{4}\$ of 2000 20 Half of 35 \$\frac{4}{4}\$ of 37 rounded to the nearest | | | | | | | | |
| 18 £18 ÷ 4 people. How much will each person get? \$\frac{3}{4}\$ of 36 19 3.5 litres =ml \$\frac{3}{4}\$ of 2000 20 Half of 35 \$\frac{4}{4}\$ of 37 rounded to the nearest | 17 | 48 271 - 33 000 | | | 37 | 16 782 - 2 431 | | |
| will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | 30,271 30,000 | | | ٥, | 10,702 2,701 | | |
| will each person get? £ 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | 646 4 1 | | \vdash | | 2 | | |
| Will each person get? £ | 18 | £18 ÷ 4 people. How much | | | 38 | -of 36 | | |
| 19 3.5 litres =ml 39 25% of 2000 20 Half of 35 40 417 rounded to the nearest | | will each person get? | £ | | | 4 | | |
| ml | 19 | | | | 39 | 25% of 2000 | | |
| 20 Half of 35 40 417 rounded to the nearest | | | ml | | | | | |
| | 20 | Half of 2E | | | 40 | 417 rounded to the persent | | |
| | 20 | Hall Of 33 | | | 40 | | | |
| | | | | | | 10 | | |

An example Newton level test

| 1 | 380 x 0 | | | 16 | Round 6.25 to the nearest | | | |
|----|------------------------------------|-----------|-----------------|----|---|----------|--------|----------|
| | | | | | whole number | | | |
| | | | | | | | | |
| | | | | | | | | |
| 2 | 16 ² | | П | 17 | $\frac{7}{12} + \frac{5}{6}$ | | | |
| | | | | | 12 + 6 | | | |
| | | | | | 12 0 | | | |
| 3 | 868 ÷ 7 | | \vdash | 18 | 500,000 - 5,000 | | | |
| _ | 000 . 7 | | | 10 | 3,000 | | | |
| | | | | | | | | |
| | | | | | | | | |
| _ | 82% as a fraction | | \vdash | 40 | 735 ÷ 5 | | | _ |
| 4 | 82% as a traction | | | 19 | /35 ÷ 5 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | \sqcup | | | | | |
| 5 | 738 + = 1000 | | | 20 | Find the product of 5 and 18 | | | |
| | | | | | | | | |
| | | | | | | | | |
| 6 | 80 minutes + 1 hour | | | 21 | 40 football cards were shared | | | |
| | 15 minutes | minutes | | | equally between 9 children. | | | |
| | | | | | How many were left over? | | | |
| | | | | | , | | | |
| 7 | ² / ₇ of 350 | | \vdash | 22 | Round 4.44 to 1 decimal | | | |
| l | 7 01 330 | | | | place | | | |
| | | | | | place | | | |
| 8 | 90 minutes before | | \vdash | 23 | In the cinema there are rows | | | \vdash |
| ۰ | | | | 25 | | | | |
| | 16:25 | | | | of seats. | | | |
| | | | | | Each row has 25 seats. | | | |
| | | | | | There are 400 seats in total. | | | |
| | | | | | How many rows are there? | | | |
| 9 | I think of a number. | | | 24 | How many 750ml bottles can | | | |
| | I multpliy it by 7. | | | | be filled from a container | | | |
| | I add 8. | | | | holding 3 litres? | | | |
| | My answer is 36. | | | | _ | | | |
| | What is my number? | | | | | | | |
| 10 | 60% of 41 | | \vdash | 25 | 25% of 300 | | | |
| | | | | | | | | |
| | | | | | | | | |
| 11 | ¾ of 220g | | $\vdash \vdash$ | 26 | 4 boxes have a mass of 1 | | | \vdash |
| | 77 OI 220g | | | 20 | | | _ | |
| | | | | | kilogram. What is the mass of 7 boxes? | | g | |
| 10 | Unio management in | | \vdash | 27 | | | | \vdash |
| 12 | _ | | | 2/ | < > or = | | 4.051 | |
| | 60 days? | weeks and | | | | 4.3kg | 4.33kg | |
| | | days | | | 4.3kg 4.33kg | | | |
| | | | $\sqcup \bot$ | | 4 | | | Щ |
| 13 | 8.5 minutes = | | | 28 | $\frac{4}{5}$ of £2 | | | |
| | seconds | seconds | | | 5 | £ | | |
| | | | | | | | | |
| 14 | 250m x 2m x | | \vdash | 20 | 7.55 + 6.8 | | | |
| 14 | | | | 23 | 7.35 + 0.0 | | | |
| | = 2km | | | | | | | |
| 15 | - 60 00 | m | \vdash | 20 | 6 · /25 · 71 | | | |
| 12 | = 60 x 90 | | | οU | 6 + (35 ÷ 7) | | | |
| | | | | | | | | |
| | | | $\perp \perp$ | | | <u> </u> | | |