Measurement

Convert between different units of metric measure (for example, km and m; cm and m; cm and mm; g and kg; l and ml)

- Use <, > or = to complete the statements below

  750g ⬤ 0.8kg

  500ml ⬤ Half a litre

  17mm ⬤ 2cm – 5mm

- **True or false?**
  1000m = 1km
  1000cm = 1m
  1000ml = 1l
  1000g = 1kg

- Bryan is 2.68m tall.
  He is 99cm taller than his sister.
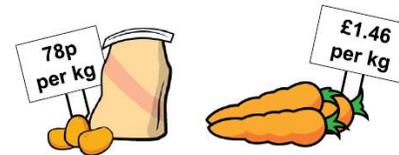 How tall is his sister?
  Give your answer in centimetres.

- Adam makes 2.5 litres of lemonade for a charity event.
  He pours it into 650ml glasses to sell.
  He thinks he can sell 7 glasses.
  Is he correct?
  Prove it.

- A 5p coin has a thickness of 1.6mm

  Jake makes a tower of 5p coins worth 90p.
  What is the height of the coins in cm?
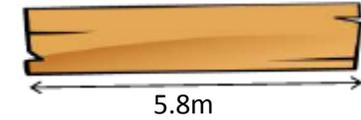
- Laura buys 3500g of potatoes

  78p per kg

  £1.46 per kg

  and 1500g of carrots.

  She pays with a £20 note.
  How much change does she get?

- A plank of wood is 5.8m long.

  5.8m

  Two lengths are cut from the wood.

  175cm $3\frac{4}{5}$ m

  How much wood is left?

- Cola is sold in bottles and cans.

  330ml   1.25 litres

  Yasmin buys 5 cans and 3 bottles.
  She sells the cola in 100ml glasses.

  She sells all the cola.
  How many glasses does she sell?

Measurement

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

- Fill in the missing boxes.

  6 inch = ☐ cm

  1 yard = ☐ feet

  1 ounce = ☐ g

- **True or false?**

  > There are 16 pounds in a stone.

  > There are 16 ounces in a pound.

- Complete the statements:

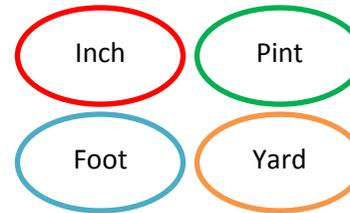 I would measure milk in _____.

  I can measure the length of my car in _____.

  Is there more than one option? Which is the most reasonable and why?

- Half a galleon is the answer. What's the question?

- **Odd one out.**
  Which of these is different to the others?
  Explain why.

  Inch   Pint

  Foot   Yard

- Rita, Margret and Mable each buy some ribbon for presents from a shop.

  Rita buys 2 feet of ribbon.

  Margret buys three times as much as Rita does.

  Mable buys 15cm more than Margret.

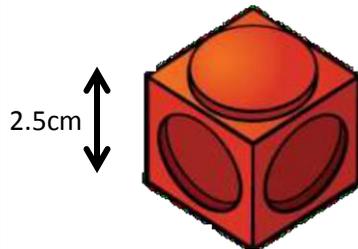 How many cm (approximately) of ribbon do they each buy?

- Mr Smith sells apples for 40p a kilogram.
  Mr Brown sells apples for 24p a pound.
  Who sells them cheaper?

- Simon travels 480 kilometres in a year.
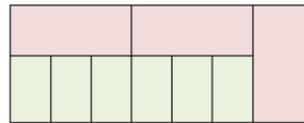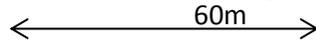 How many miles is this approximately?

Measures

Use all four operations to solve problems involving measure.

- A tower is made of red and green cubes.
  For every 1 red cube there are 2 green cubes.
  Each cube has a height of 2.5cm
  The tower is 30cm tall.
  How many green cubes are in the tower?

  2.5cm

- The diagram is made up of two different sized rectangles.

  60m

  For each large rectangle the length is double the width.
  The length of the diagram is 60m.
  Find the area of one of the small rectangles.

- The perimeter of the rectangle is 33cm.

  3.6cm

  Ajay says,

  Rounded to the nearest whole number the length of the rectangle is 13cm.

  Do you agree? Explain why.

- Here is a square with a equilateral triangle inside it.

  The perimeter of the triangle is 54cm
  Find the perimeter of the square.

- Ellie, Shauna and Megan receive their pocket money on a Friday.

  Shauna receives two times more than Ellie receives.

  Megan receives £5 more than Shauna receives.

  Altogether, their mum hands out £22.50

  How much money do they each receive?

  (*A bar model will help.*)

- Lollies are sold in two sizes, small and large.

  Sanjay buys two small lollies for 92p
  Jenny buys 5 small lollies and 3 large lollies and pays with a £10 note.
  Jenny receives £4.16 change.
  How much does one large lolly cost?

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