Starter

1. Calculate

   a. 20% of £52.80 b. 17.5% of 180 m

2. If d = 2, e = (-1) and f = 5, evaluate

   a. e^2f b. $2e + (d - f)^2$ c. $e(e + d)^3$

3. A survey was conducted to find the number of people living in each house on a street in Clarkston. The results were:

   a. 1 person (5) b. 2-3 people (8)

   c. 4-5 people (11) d. More than 5 people (6)

   Calculate the angles required to draw a pie chart.

4. A carton of juice contains $2^1/_2$ pints. Mike drinks $^2/_3$ of it. How much is left?

Starter

1. Calculate
   a. 60% of £510 b. 12.5% of 392 g

2. The weights, in kg, of the luggage of the first 15 families checking in to a summer holiday flight were:

   58, 96, 42, 76, 102, 68, 65, 78, 56, 51, 78, 93, 46, 109, 40

   a. Create an ordered stem and leaf diagram.
   b. Find i. range ii. mode iii. median

3. If u = (-3), v = 8 and w = (-1), evaluate
   a. $uv - 4w$ b. $2(w - v)^2$ c. $u^2 - w^3$

4. George picks two numbers at random. The difference between the numbers is 3 and their total is 45. What are the two numbers?

Starter

1. Calculate
   a. 9% of £4000 b. 12.5% of $1680

2. If $g = 4$, $h = (-2)$ and $i = 10$, evaluate
   a. $gi + 5h$ b. $i - (h - g)^2$ c. $7g - h^2g$

3. Jenny is planning to fence her garden. To do this, she needs 45 m of fencing. She buys 21 panels which are all $2^2/_5$ metres long.
   Does she have enough?

4. a. Find an equation to represent the staff to pupil ratio for school excursions.

Staff (S)	1	2	3	4	5
Pupils (P)	1	4	7	10	13

   b. If there are 11 staff available, how many pupils can go?
   c. If there are 58 pupils who wish to go on a trip, how many staff are needed?

Starter

1. Solve the following
   a. $2(x + 9) = 3(x - 4)$ b. $16 - 7(b - 2) = 2(2b + 3)$

2. The daily rainfall in cm was measured each day for 2 weeks:

   2.2 0.0 2.7 0.0 0.9 0.3 0.8 4.2 4.1 2.3 1.0 3.5 1.4 1.8

   a. Create an ordered stem and leaf diagram
   b. Find i. range ii. mode iii. median

3. A charity night on television raised a total of £4.8×10^7 over 6 hours. How much money was raised per hour? Give your answer in standard form.

4. Katie bought an iPad for £380. After having the iPad for 3 months, the value decreased by 32.5%. What is the new value?

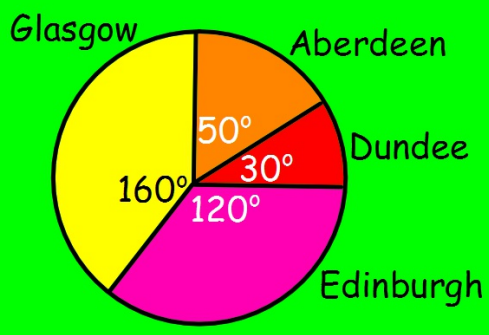
Starter

1. Solve the following

   a. $4(y - 4) = 2(y + 25) - 4$ b. $7 - 3(b - 1) = 3(b - 4) + 8$

2. Jane bought a pair of boots in a sale which had originally cost £45.
   If she got a 25% discount on them, how much did she pay?

3. This pie chart represents the population in four of Scotland's cities.
   If the total population is 1,800,000,
   work out the population in each city.



4. These shapes are similar.
   Calculate the value of x.