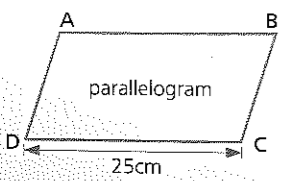



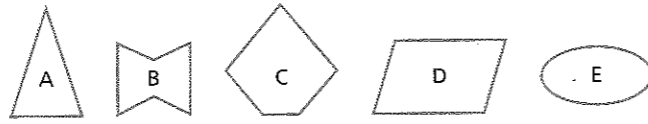
# SECTION 1 | Test 11

Schofield & Sims

- A** **Answer**
- a  $2^5 = 2 \times 2 \times 2 \times 2 \times 2 =$  32  
b  $10^5 =$  100000
  - five 5ps + seven 10ps - nine 2ps = 77p
  - $(73 + 9) = 150 -$  68
  - $10.085\text{km} =$  10085\text{m}
  - $\frac{y}{100} = 10.64$ . Find the value of  $y$ . 1064
  - $6.358 = 63$  tenths + 58 thousandths
  - $550\text{g} \times 6 =$  3.3\text{kg}
  - $\pounds 36.50 \div 10 = \pounds$  3.65
  - $75^\circ + 65^\circ + 90^\circ +$  130^\circ
  - $\frac{3}{10}$  of  $0.3\text{m} =$  9\text{cm}
  - 8% of  $\pounds 3.00 =$  24\text{p}
  - $17.2 \div 2 =$  8.6

- B** **Answer**
- Write these improper fractions as mixed numbers.  
a  $\frac{74}{5}$  b  $\frac{39}{7}$  a  $14\frac{4}{5}$  b  $5\frac{5}{7}$
  - Find in litres the total of 830ml, 360ml and 170ml. 1.36l
  - Of these numbers which is  
a the largest a 3.333  
b the smallest? b 3.03  
3.03 3.33 3.3 3.333
  - Which year is MCMXCIX? 1999
  - Write as a fraction in its simplest form.  
a 15mm of 15cm a  $\frac{1}{10}$   
b 25min of 1h b  $\frac{5}{12}$
  - Find the difference between 0.394 and 0.4. 0.006
  - Which of these numbers are multiples of both 5 and 8?  
16 25 40 64 90 120 40, 120
  - $\frac{3}{8}$  of a sum of money is 45p. Find  $\frac{1}{2}$  of the sum of money. 60p
  - Find to the nearest centimetre one seventh of  $6\frac{1}{4}\text{m}$ . 89\text{cm}
  - What sum of money is 200% of  $\pounds 170$ ?  $\pounds 340$
  - Find the cost of 2.5kg at 74p per 500g.  $\pounds 3.70$
  -  The perimeter of this parallelogram is 72cm. Find the length of the sides AD and BC. 11cm

- C** **Answer**
- By how many is  $(10^3 + 16)$  greater than  $(10^2 + 16)$ ? 900
  - George's date of birth is 27 Nov. 04. How old will he be in years and months on 1 Sept. 2020? 15yr 9mth
  - Sophie received a gift of  $\pounds 16$ . She saved 90% of the money and spent the rest.  
a What percentage did she spend? a 10%  
b How much did she save? b  $\pounds 14.40$
  -  Each of the equal angles in this isosceles triangle is twice the size of the third angle. Find the size of  
a the third angle a 36^\circ  
b the equal angles at the base. b 72^\circ
  - A line 10cm long is drawn to represent a distance of 3km. To what scale is the line drawn? 1cm to 300m
  - |  |
|--|
| Potatoes   |
| $\pounds 1.40$ for a 3kg bag or 24p per $\frac{1}{2}\text{kg}$ |

 How much money is saved by buying 6kg of potatoes in bags? 8p
  - A rectangular plot of ground measures 19.7m long and 13.4m wide. Round each measurement to the nearest metre and then find the approximate area of the plot. 260m<sup>2</sup>
  - Which of these shapes have two axes of symmetry? B, E  

  - There were three candidates A, B and C in an election. Of the total votes A polled  $\frac{1}{4}$ , B polled  $\frac{1}{6}$  and C polled  $\frac{1}{3}$ .  
a Which candidate won the election? a C  
b What fraction of the electors did not vote? b  $\frac{1}{4}$
  - $x = 8 \times 4 + 4$   $y = 8 \times (4 + 4)$   
Find the value of  
a  $x$  a 36  
b  $y$  b 64  
c  $y - x$ . c 28
  - The price of a pen was increased from 30p to 36p. Find the increase as a percentage of the original price. 20%
  - Find in millimetres the diameter of a circle that has the radius 7.7cm. 154mm

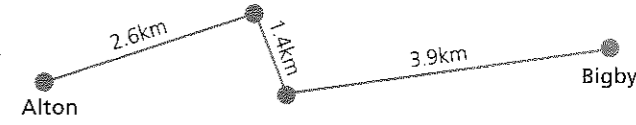
# Mental Arithmetic 5 Answers

- A** **Answer**
- 1.4 million + 0.3 million = 1.7 million
  - $1000 \times$  0.3
  - a 5% of  $\pounds 30 =$  a  $\pounds 1.50$   
b 40% of  $\pounds 50 =$  b  $\pounds 20$
  - $2.050\text{l} -$  550ml
  - $2 + 5 \times 5 - 7 =$  20
  - $6 \times 9 \times 5 \times 4 =$  1080
  - $\frac{4.56\text{m}}{8} =$  57\text{cm}
  - a  $0.65 =$  a 65% =  $\frac{13}{20}$   
b  $0.12 =$  b 12% =  $\frac{3}{25}$
  - $7\text{h} - 3\text{h } 28\text{min} =$  3h 32min
  - $1.34 +$  0.536
  - $9.072 \times 7 =$  63.504
  - $\pounds 5.00 \div 6 =$  83p r 2p

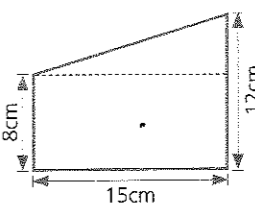
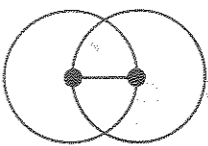
- B** **Answer**
- Take the sum of  $\frac{2}{3}$  and  $\frac{5}{6}$  from 2.  $\frac{1}{2}$
  - How many times is 600g contained in 4.8kg? 8
  - |       |                                |
|-------|--------------------------------|
| £     | Find the missing sum of money. |
| 4.7 4 |                                |
| 1.9 0 |                                |

 $\pounds 2.84$
  - How many days inclusive from 23 Nov. to 9 Dec? 17
  - Find the reflex angle to an angle of  $63^\circ$ .  $297^\circ$
  - To the total of 850ml and 950ml add 1.6l. Give the answer in litres. 3.4l
  - What percentage of  
a  $\pounds 400$  is  $\pounds 20$  a 5%  
b 1 tonne is 250kg? b 25%
  - Write the year 1066 using Roman numerals. MLXVI
  - 40% of a sum of money is 60p. Find the whole amount.  $\pounds 1.50$
  - Which of these decimal fractions equals  $\frac{1}{8}$ ?  
0.8 0.15 0.25 0.125 0.125
  - Divide  $\pounds 10.00$  by 3. Give the answer to the nearest penny.  $\pounds 3.33$
  - A piece of paper is 210mm by 30cm. Find its area in  $\text{cm}^2$ . 630 $\text{cm}^2$

# SECTION 1 | Test 12

- C** **Answer**
- By how many is  $(3 \times 10^3)$  less than five thousand? 2000
  - The mass of a 5p coin is 3.25g. What is the value of the 5ps in a bag if their mass is 0.325kg?  $\pounds 5$
  - Of 240 children in a school, 180 bring a packed lunch. Find the percentage of children who have school lunches. 25%
  - Find to the nearest kilometre the distance by road from Alton to Bigby.  
 8km
  - The mean temperature over four consecutive days was  $17^\circ\text{C}$ . For three of the days the temperatures were  $16^\circ$ ,  $14^\circ$  and  $18^\circ$  respectively. What was the temperature on the fourth day?  $20^\circ\text{C}$
  - Find the value of  $7 - 3 \times 2 + 10$ . 11
  - In this chart two of the prices, marked  $x$  and  $y$ , are missing. What are they?  

mass	100g	150g	200g	300g	400g
price	18p	27p	$x$	54p	$y$

  
x 36p  
y 72p
  - Maisie saves  $\pounds 7.50$  in five months. If she continues to save at the same rate, how much will she have saved in  
a 7 months a  $\pounds 10.50$   
b 1 year? b  $\pounds 18$
  -  a What kind of triangle is added to the rectangle to make the shape? a right-angled  
b Find the area of the shape. b  $150\text{cm}^2$
  -  The diameter of each circle is 15.8cm. What is the distance in millimetres between the two centres? 79mm
  - Yan scored 19 out of 20 in a test. What is his score as a percentage? 95%
  - A hollow cube has sides measuring 20cm. If the cube is half filled with water, what is the mass of the water in kilograms? 4kg