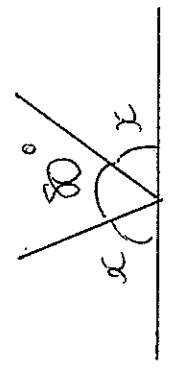


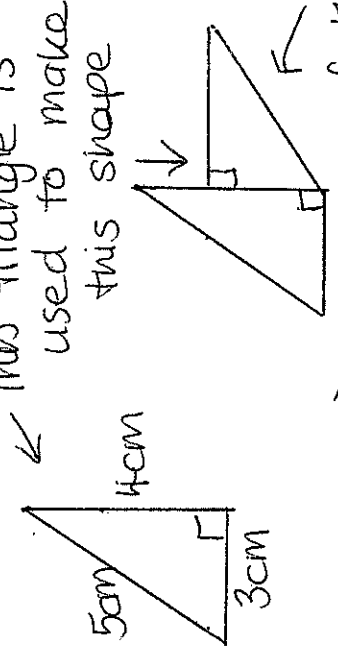
7 bus routes Manchester to Wigan every 8 minutes to St Helens every 12 minutes. They both leave at 10am. At what time will a bus to Wigan and a bus to St Helens leave at the same time again?

Paul is  $x$  years old. John is twice as old as Paul. Simon is 8 years older than Paul. Write an expression, in terms of  $x$ , for the total age of Paul, John and Simon.

Work out  
 a)  $-20 \div 4$   
 b)  $10 - 3 \times (4 - 2)$

  
 Find the value of  $x$ .

If  $x = 3$ , work out  $4x^2 - 2$ .

  
 Work out a) the area of this shape  
 b) work out the perimeter

write  
 a) 4600ml in litres  
 b) 5kg to grams  
 c)  $4m^2$  to  $cm^2$

Factorise completely  
 $4x^2y + 12xy^2$

Pattern 1      Pattern 2      Pattern 3      Pattern 4  
 a) Draw Pattern 4  
 b) How many dots will be in pattern 20?

Use your calculator to work out  
 $\sqrt{4058}$   
 $0.45 \times 13.6$   
 a) write your full calculator display out  
 b) Round your answer to 1 significant figure

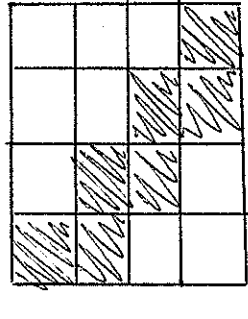
Work out an estimate for  
 $\frac{25 \times 10.32}{0.489}$

Write down the first 4 multiples of 21.

Expand and simplify  
 a)  $3(x+2) + 4(x+5)$   
 b)  $5(x+6) + 4(x-3)$

Write down all the factors of 45.

Increase £63 by 5%

  
 What fraction of this shape is not shaded?

Year 7  
 Test B  
 REVISION