

Year 8 EOY Revision Test A

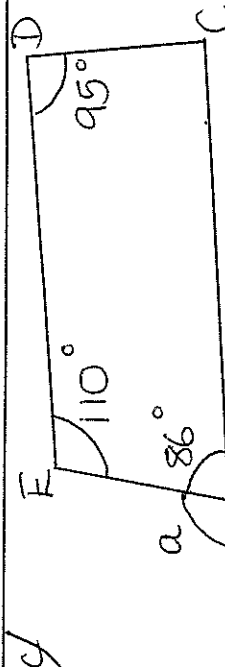
c) Write down the value of 2^7 .

b) Write $\frac{2^6 \times 2^7}{2^4}$ as a power of 3.

c) Write down the value of 15°

c) Work out the value of a if $4^a \times 16 = 2^6$.

c) The n^{th} term of a sequence is $2n^2 - 8$.
Work out the 5th term of this sequence

NG

 a) Work out angle a, giving a reason.
 b) Find the size of angle BCD.

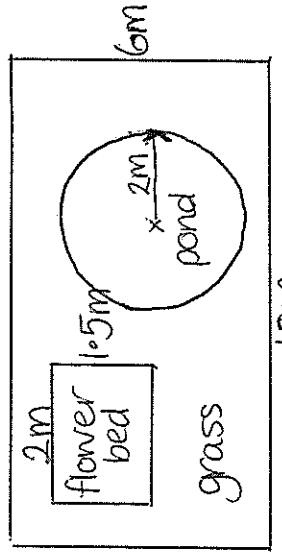
c) a) Find the value of x
 $y^4 \times y^x = y^{10}$

b) $(8^3)^p = 8^{12}$ Find p.

NG Fully factorise

a) $27x^2 - 18x$

b) $y^2 - 9y + 20$

c) 
 Belle wants to re-seed the grass. Each bag of grass seed costs £4.60 and covers 10m². Work out the total cost to re-seed the garden.

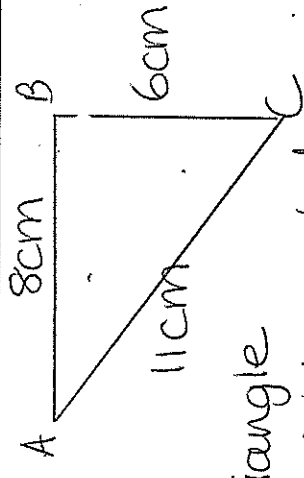
c) Find the area of a circle with diameter 16m.
Give your answer in terms of π .

NG Write this 4:3 in one ratio 1:n.

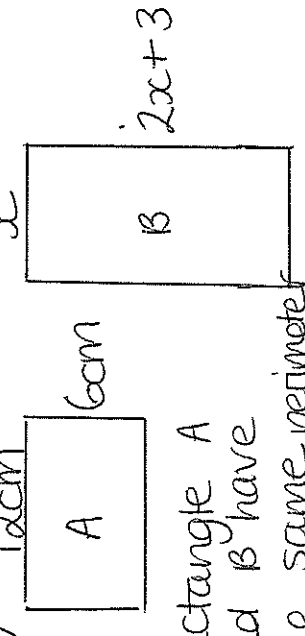
NG Find the next 2 terms in the following sequences:

a) 3 6 12 ...

b) 2 3 5 8 12 ...

c) 
 Is triangle ABC right-angled or not? Give a reason.

c) Write down the value of 5^{-2} as a fraction.

c) 
 Rectangle A and B have the same perimeter. Find the area of rectangle B.

c) A website had 140 000 views in March. It had 198 800 views in April.
Work out the percentage increase in views.

NG/Work out:

a) $2\frac{1}{6} + 1\frac{1}{5}$

b) $1\frac{2}{5} \div \frac{3}{4}$ Give your answer as a mixed number in its simplest form

c) Here are the first five terms of a sequence.
3 7 11 15 19 ...
Find the n^{th} term of the sequence.