**Year 7 End of Year Assessment – Master class**

Q1.

(a)  Simplify    *h* + *h* + *h*

...........................................................

**(1)**

(b)  Simplify    *p* × *r* × 3

...........................................................

**(1)**

(c)  Simplify    5*x* + 4*y* – 3*x* + 3*y*

...........................................................

**(2)**

*k* = 5 *m* = 3

(d)  Work out the value of    2*k* + 4*m*

...........................................................

**(2)**

**(Total for question = 6 marks)**

Q2.

A pile of sand has a weight of 60 kg.  
The sand is put into a small bag, a medium bag and a large bag in the ratio 2 : 3 : 7

Work out the weight of sand in each bag.

small bag ........................................................... kg

medium bag ........................................................... kg

large bag ........................................................... kg

**(Total for Question is 3 marks)**

Q3.

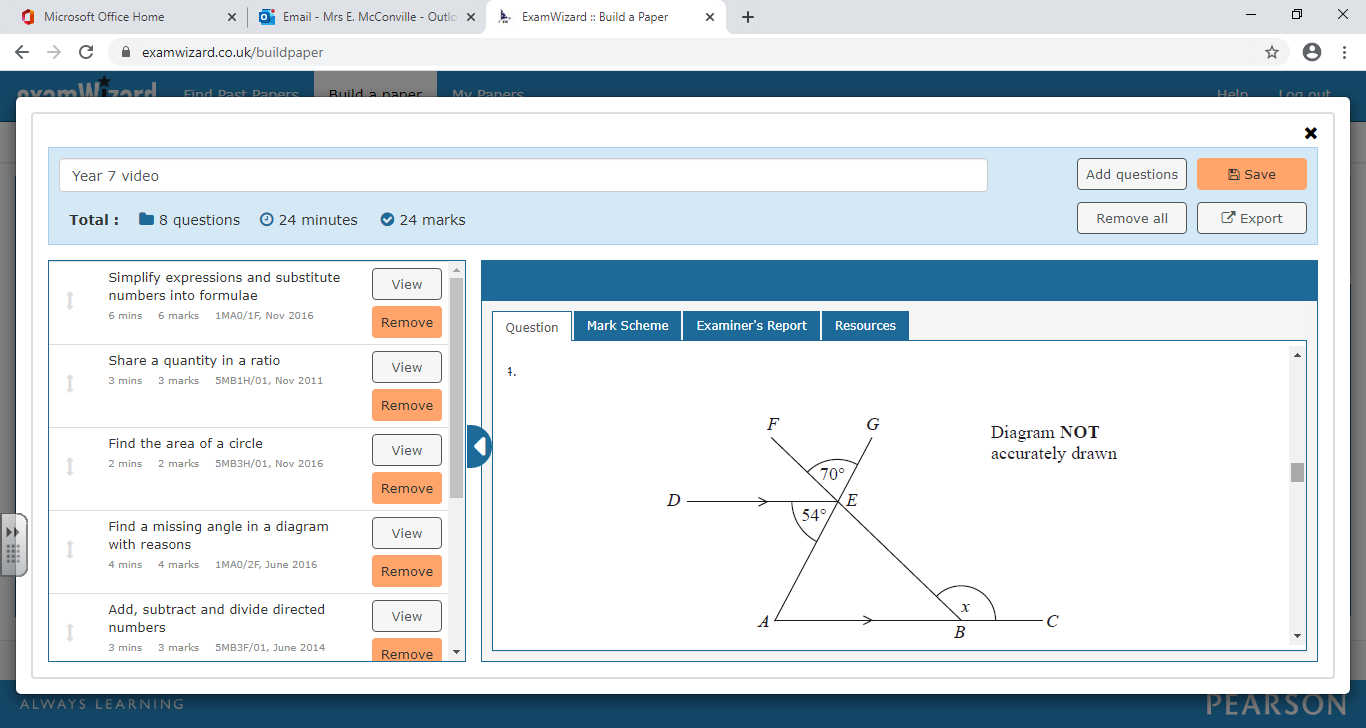
A circle has a radius of 5.8 cm.

Work out the area of the circle.  
Give your answer to 1 decimal place.

........................................................... cm2

**(Total for question = 2 marks)**

Q4.



*ABC* and *DE* are parallel lines. *AEG* and *BEF* are straight lines.

Angle *AED* = 54° Angle *FEG* = 70°

Work out the size of the angle marked *x*.  
Give a reason for each stage of your working.

**(Total for question = 4 marks)**

 Q5.

(a) Work out   −5 − 4

.........................

**(1)**

(b) Work out   −12 ÷ +4

.........................

**(1)**

**(Total for Question is 2 marks)**

Q6.

Here are four digits.

6          3          5          9

(a)   Write down the largest three-digit number you can make using three of these digits.  
You may only use a digit once.

...........................................................

**(1)**

Here are the four digits again.

6          3          5          9

(b)  Write down the three-digit number, whose value is closest to 600, that you can make using three of these digits.  
You may only use a digit once.

...........................................................

**(1)**

**(Total for question = 2 marks)**

Q7.      a)

Work out     2⁄5 + 3⁄8

Give your answer in its simplest form.

. . . . . . . . . . . . . . . . . .

**(Total for Question is 2 marks)**

     b)

Work out  3⁄8 ÷ 1⁄2

. . . . . . . . . . . . . . . . . . . .

**(Total for Question is 2 marks)**