12 $3^{\frac{1}{2}} \times 3^{\frac{2}{5}} = 3^m$

(a) Work out the value of m

$m =$ .....

(1)

$5^{-10} \div 5^{-4} = 5^n$

(b) Work out the value of n

$n =$ .....

(1)

(Total for Question 12 is 2 marks)

13 Expand and simplify $3x(2x - 5)^2$
Show clear algebraic working.

.....

(Total for Question 13 is 3 marks)

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