

Maths Homework :01

Year: 8

Student Name: _____

Date: 01/10/2020

Q1. Workout these by evaluating the brackets First . (2 marks)

a) $5 \times (4 - 2)$ _____

b) $(5 - 3) \times 2$ _____

Q2. Work out. (3 marks)

a) $-2 + -4 =$ _____ b) $9 - 8 + 1 =$ _____ c) $-9 + 7 =$ _____

Q3. Find two different pairs of numbers that multiply to make 64 and have a difference of 12. (2 marks)

Q4. Complete : (2 marks)

a) $-19 \div \underline{\hspace{1cm}} = -9.5$

b) $-12 \times \underline{\hspace{1cm}} = 60$

Q5. Simplify these, leaving your answers in index form. (1 mark)

$(r^3 \times r^5) \div r^2$ _____

Q6. Work out : (2 marks)

a) The square root of 81 _____ b) The square of 4 _____

Q7. Use the squares you know to mentally calculate these. (1 mark)

a) 21^2 _____

Q8. Rewrite these Using Index notation : (1 mark)

a) $7 \times 7 \times 7 \times 7 \times 8 \times 8 \times 8$ _____

Q9. Find all the factor pairs for these numbers. (1 mark)

a) 54 _____

Q10. Find all the prime factors for the given number. (1 mark)

a) 54 _____

Q11. Use prime factor decomposition to find the HCF and the LCM of 48 and 64.

(2 marks)



Q12. Work these out, writing your answers as decimals. (2 mark)

$10^{-2} \times 10^{-1}$ _____

$10^{-8} \times 10^5$ _____
