# Simplification and LCM , HCF

| 1. Multiply: | 2. Divide: | 3. Simplify: |
|---|---|---|
| a) 100 × 0.23 = _____ | a) 35÷100 = _____ | a) _____ × ¯7 = 49 |
| b) 10 × 0.1 = _____ | b) 1÷10 = _____ | b) _____ × ¯6 = 48 |
| c) 100 × 0.10 = _____ | c) 7÷100 = _____ | c) _____ × 2 = ¯12 |
| d)100 × 0.051 = _____ | d) 0.5÷100 = _____ | d) _____ × ¯4 = ¯16 |

Simplify:

4. 5 x 3 + 24 ÷ 6     =_____         5. 54 ÷ 9 – 8 ÷ 2 x 8     =_____

6. 15 + 75 x 3     =_____         7. 6 + 36 ÷ 12 – 4     =_____

8. 24 + 12 x 25 ÷ 5 =_____         9. 2 x (9 x 5) – (18 ÷ 2)     =_____

10. In a factory, boxes are stacked in piles of ten. If each box has a height of 15 inches, what is the height of a stack?

_____

11. A school buys 100 new textbooks for £1200. What is the cost of each book?

_____

12.Write the prime factorization of 12. Use exponents when appropriate and order the factors from least to greatest (for example, $2^2$ × 3 × 5).

_____

What is the greatest common factor of:

13. 18 and 6   _____    14. 12 and 8   _____

15. 40 and 25   _____    16. 21 and 9   _____

What is the least common multiple of:

17. 18 and 6   _____    18. 9 and 8   _____

19. 10 and 25   _____    20. 12 and 9   _____