




1. Round to 2 decimal places :-
 (a) 5.5416 (b) 0.15602
 (c) 11.065 (d) 9.99611.
2. Round to 2 significant figures :-
 (a) 7.657 (b) 1 236 545
 (c) 11.4999 (d) 59 512 332.
3. Write down how many significant figures each of these numbers has :-
 (a) 0.010 (b) 5.004.
4. By rounding, find an approximate answer to :-
 (a) $83\,654 \div 189$ (b) $62\,974 \times 293$.
5. A farmer's crop of 60 kg of carrots is sealed into 1.5 kg plastic bags. He sells the bags at £0.60 each. How much money will he make ? 
6. A second hand scooter was on sale for £880. I bought it using a hire purchase agreement :-
 • I paid an initial deposit of 25% of the cash price.
 • I then made ten payments of £75.50 each. 
- (a) How much did it cost me paying it up this way ?
 (b) How much would I have saved if I had paid cash ?
7. Find :-
 (a) 12×30 (b) 3450×400
 (c) $80\,000 \div 200$ (d) $345\,000 \div 500$.
8. What is the answer to :-
 (a) $5 + 2 \times 3$ (b) $15 - 10 \div 5 + 3$?
9. Find :-
 (a) $(-10) - 4$ (b) $15 - (-12)$
 (c) $69 + (-70)$ (d) $(8) \times (-4)$
 (e) $(-45) \div (-5)$ (f) $172 \div (-3)$
 (g) $(-2)^6$ (h) $(-1)^{71}$.
10. Find the lowest common multiple of :-
 (a) 3 and 4 (b) 8 and 6
 (c) 2, 3 and 6 (d) 5, 6 and 8.
11. Find the highest common factor of :-
 (a) 10 and 15 (b) 24 and 42
 (c) 480 and 720 (d) 21, 42 and 63.
12. List all the prime numbers between :-
 (a) 40 and 50 (b) 90 and 110.
13. As a product of its prime factors, 60 can be written as :- $2 \times 2 \times 3 \times 5$. Write each as a product of its prime factors :-
 (a) 42 (b) 100
 (c) 36 (d) 128.
14. Find :-
 (a) 6^2 (b) 30^2
 (c) 3^3 (d) 4^4
 (e) $\sqrt{49}$ (f) $\sqrt{40000}$.
15. Change to a decimal :-
 (a) $\frac{1}{2}$ (b) $\frac{3}{5}$
 (c) 13% (d) 9%.
16. Change to a percentage :-
 (a) 0.5 (b) 0.4
 (c) $\frac{3}{4}$ (d) $\frac{2}{3}$.
17. A greenhouse is priced at £800. In a sale, a discount of 15% is given. How much would I pay for the greenhouse in the sale ? 
18. A cinema was having a refit and the seating capacity was decreased by 30%. The old cinema had an original maximum audience of 750. How many can the revamped cinema hold ? 