- 2. Add together the squares of '281 and '052; and multiply 1'285714 by 4 . 6.
- \$ of 1 \frac{1}{6} + 1\frac{1}{6} \text{ of } 6\frac{1}{4} 1\frac{1}{3} \text{ of } 5\frac{1}{6}
  \$ of 1\frac{1}{6} \text{ of } 1\frac{1}{3} \text{ of } 5\frac{1}{6} 3. Simplify
- 4. Reduce £19, 125., 5\(\frac{1}{2}\)d., to the decimal of £39, 175., 4d.
- 5. The return of a business in which 3 people have invested \$150, \$260, and \$400 respectively, is \$50.62\frac{1}{2}. What is the share of each?
- 6. A merchant bought 1452 articles, \$\frac{1}{4}\$ of which he sells at a gain of 6 per cent., \frac{1}{3} at a gain of 8 per cent., and the remainder at a gain of 10 per cent. If he had sold the whole at a gain of 12 per cent. he would have gained \$106.48 more. Find the cost price of each article.
- 7. Find the simple interest on £750, 10s., 7\frac{1}{2}d., for 64 days at 6\frac{1}{4} per cent. per annum.

1. Simplify:

$$a(b-c)^{3}-a(b-c)(2b^{2}-bc+2c^{2})+(ab+ac)(b^{2}-c^{3});$$
  
and find its value when  $a=1, b=2, c=3.$ 

- 2. Shew that if  $3x^7 5x^3 + 2$  be divided by  $x^3 + x 2$ , the remainder will be divisible by x-1.
- 3. Simplify:

$$\frac{x-1}{3} + \frac{x-1}{x-2} \div \frac{x+3}{7} - \frac{x+3}{x+4} \div \frac{x+2}{x-3} + \frac{x-2}{x-1}$$

- (2) (a b 8 c5) 1 × (d b4 c-1) 1 × (a-5 b c2) 1.
- 4. Solve the equations:

(1) 
$$\frac{7 \cdot x + 1}{5} - \frac{17 - 2x}{3} = \frac{5x + 1}{4}$$

- (2) 5x 3y = 3x + 5y = 51
- (3) (3x-5)(2x-5)=(x+3)(x-1).

5. Divide be sul 100.

6. Find th whose Sur 66

7. (1) WI

(2) By

(3) Fin

1. Define s of the

2. Trace th from ( 3. Find the

4. Prove : (I) si

(2) 52

5. Prove g sin B.

6. Shew th

7. If a = log 1 L cot :

> 1. Turn i (1) Aime des figu